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Water Resources Data for New York Water Year 1973. Part 2 Water Quality Records

(U.S.) **Geological Survey, Albany, NY Water Resources Div**

1974

PB 289549

1973

Water Resources Data for New York Water Year 1973

Part 2. Water Quality Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-73-2

Prepared in cooperation with the State of New York
and with other agencies

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Water resources data for the 1973 water year for New York consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 134 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in New York.

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for
New York
Water Year 1973

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-73-2

Prepared in cooperation with the State of New York
and with other agencies

ia

Prepared in cooperation with

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New York State Power Authority
Central New York State Parks Commission
County of Cortland, Planning Department
County of Dutchess
County of Nassau, Department of Public Works
County of Suffolk, Department of Environmental Control
County of Suffolk, Water Authority
City of Albany, Department of Water and Water Supply
City of New York, Board of Water Supply
City of New York, Department of Water Resources
Delaware River Basin Commission
Environmental Protection Agency
Atomic Energy Commission

Water resources records, 1973, for New York are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for New York
   Part 1: Surface Water Records

2. Water Resources Data for New York
   Part 2: Water Quality Records

Copies of this report may be obtained from:

District Chief. Water Resources Division
U.S. Geological Survey
U.S. Post Office and Court House
P. O. Box 1350
Albany, N. Y. 12201

1974

Page

List of water-quality stations, in downstream order, for which records are published with cross-reference of identification numbers.......................... V
Introduction.. 1
Cooperation... 1
Definition of terms and abbreviations.......................... 2
Arrangement of data and identification numbers................ 8
  Surface-water quality data.................................... 8
  Ground-water quality data..................................... 9
  Precipitation-quality data.................................... 9
Special networks and programs.................................. 10
Explanation of water-quality data.............................. 11
  Collection and examination of data............................ 11
  Solutes... 12
  Temperature... 13
  Sediment.. 14
Other available data... 15
Water-supply papers.. 16
Selected references.. 16
Water-quality records.. 20
  Surface-water... 20
    Stations.. 20
    Partial-record stations..................................... 242
    Miscellaneous sites... 260
      Minor element analyses.................................... 276
  Ground water.. 283
  Precipitation... 288
Index... 295

ILLUSTRATIONS

Figure 1. Index for water-quality station maps.............. VII

2-8. Location of water-quality stations................ VIII-XIV

9. Sketch showing well- and spring-location system..................................... 9

TABLES

Page

Table 1. Factors for conversion of chemical constituents in milligrams per litre to milliequivalents per litre.................................. 5

2. Degrees Celsius (°C) to degrees Fahrenheit (°F)... 12

3. Water-supply paper numbers and parts, water years 1950-71......................... 16

4. Factors for converting English units to International System units (SI)............. 19

5. New York State Water Quality Surveillance Stations for which water samples were analyzed by agencies other than the U.S. Geological Survey, 1973, water year.... 293

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED WITH A CROSS REFERENCE LIST OF IDENTIFICATION NUMBERS

Letters after station name
designate type of data reported
(c) - chemical
(t) - temperature
(s) - sediment

Abbreviations:
USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
EPA - Environmental Protection Agency
WQS - New York State Water Quality Surveillance

	IDENTIFICATION NUMBERS				Page
	USGS	OWDC	EPA	WQS	
NORTH ATLANTIC SLOPE BASINS					
HOUSATONIC RIVER BASIN					
Housatonic River:					
Tenmile River near Gaylordsville, Conn. (c)	01200000			16 1002	20
STREAMS ON LONG ISLAND					
Mill Neck Creek at Mill Neck (c)	01303000	67699			22
Carmans River at Yaphank (c)	01305000	67703			24
Massapequa Creek at Massapequa (c)	01309500	67710			26
East Meadow Brook at Freeport (c)	01310500	67713			28
HUDSON RIVER BASIN					
Hudson River:					
Schroon Lake (Schroon River) at Pottersville (c)	01316500	61392		11 P030	30
Loon Lake near Chestertown (c)	01316808	61393		11 P040	31
Friends Lake near Chestertown (c)	01316815	61394		11 P050	32
Brant Lake Outlet at Brant Lake (c)	01316895	61391		11 P020	33
Schroon River at Riverbank (c)	01317000	61395		11 1060	34
Sacandaga River:					
East Branch Sacandaga River at Griffin (c)	01319000	54061		11 2788	35
Sacandaga River at Hadley (c)	01325005	68092		11 1551	37
Hudson River at Corinth (c)	01325420	61400		11 0602	38
Hudson River at Spier Falls (c)	01326400	68091		11 0605	40
Hudson River at Glens Falls (c)	01327600	77696		11 0580	42
Hudson River at Hudson Falls (t)	01327700	54111			44
Hudson River at Fort Edward (c)	01327750	68090		11 0561	45
Hudson River at Thomson (c)	01328770	77701		11 0015	47
Batten Kill at Middle Falls (c)	01329640	61398		11 1501	48
Kayaderosseras Creek (head of Fish Creek):					
Glowegee Creek near West Milton (ct)	01329995	65356			50
Glowegee Creek at West Milton (ct)	01330000	54112			52
Kayaderosseras Creek near West Milton (t)	01330500	54062			54
Kayaderosseras Creek at Saratoga Springs (c)	01330770	77698		11 3320	55
Fish Creek at Saratoga Springs (c)	01330885	77699		11 1311	56
Fish Creek at Schuylerville (c)	01330915	77700		11 1301	57
Hudson River at Stillwater (c)	01331095	68088		11 0005	58
Hoosic River near North Pownal, Vt. (c)	01333350	67090	50 1479	11 1432	60
Hoosic River near Stillwater (c)	01335400			11 1402	62
Hudson River at Waterford (c)	01335770	61387		11 0001	63
Hudson River at monitor at Waterford (c)	01335771	68089		11 0002	65
Mohawk River above Little Falls (c)	01346495	77703		12 0350	67
East Canada Creek near St. Johnsville (c)	01348002				68
Mohawk River at Lock 15 at Fort Plain (c)	01348795	77704		12 0330	69
Cayadutta Creek at Fonda (c)	01349520	68087		12 1301	70
Mohawk River at Fonda (c)	01349527	68084		12 0305	72
Schoharie Creek at North Blenheim (t)	01350180	82733			74
Schoharie Creek at Fort Hunter (c)	01353995	61401		12 1251	76
Mohawk River at Tribes Hill (c)	01354000	77705		12 0320	77
Mohawk River at Lock 10 at Cranesville (c)	01354160	61402		12 0300	78
Mohawk River at Schenectady (c)	01354490	61382		12 0005	80
Mohawk River at Vischer Ferry Dam (t)	01356000	54115		12 0003	82
Mohawk River at Crescent Dam (c)	01357000	61390		12 0002	84
Hudson River at Green Island (ct)	01358000	54065		13 0008	86
Hudson River at Glenmont (c)	01359560	61456		13 0200	89
Hudson River at Coeymans (c)	01359803	61455		13 0180	91
Hudson River at Catskill (c)	01361450	61454		13 0140	92
Esopus Creek at Shandaken (cts)	01362198	54068		13 1128	94
Esopus Creek at Saugerties (c)	01364501			13 1600	97
Hudson River at Kingston Point (c)	01364950	77082		13 0300	98
Rondout Creek:					
Wallkill River near Unionville (c)	01368000	51139			99
Wallkill River near Rosendale (c)	01372003	61452		13 2070	100
Rondout Creek at Eddyville (c)	01372005	68074		13 1071	101
Hudson River near Poughkeepsie (c)	01372043	54116		13 0103	102
Wappinger Creek near Wappingers Falls (c)	01372500	54071		13 1050	106
Hudson River near Chelsea (c)	01372550	61451		13 0660	108
Hudson River at Beacon (c)	01372575	68075		13 0258	110
Fishkill Creek at Hopewell Junction (t)	01372800	54072			112
Fishkill Creek at Beacon (ct)	01373500	54074		13 1040	114
Moodna Creek near New Windsor (c)	01373860	68073		13 1252	117
Hudson River at Bear Mountain (c)	01374085	68081		13 0250	119
Hudson River at Verplanck (c)	01374350	68076		13 0256	120
Hudson River at Piermont (c)	01376269	68079		13 0254	122
Hudson River at Yonkers (c)	01376510	68080		13 0251	124
HACKENSACK RIVER BASIN					
Hackensack River near Orangeburg (c)	01376905	61460		15 0001	126
DELAWARE RIVER BASIN					
East Branch Delaware River at Margaretville (c)	01413500	81626			128
East Branch Delaware River at Downsville (c)	01417000	81627			129
Beaver Kill at Cooks Falls (c)	01420500	54076		14 2108	130
East Branch Delaware River at Fishs Eddy (ct)	01421000	65360		14 1050	132
East Branch Delaware River at Hancock (c)	01421500	74913			135
West Branch Delaware River above Walton (c)	01422735				136
West Branch Delaware River at Beerston (c)	01423010				137
West Branch Delaware River at Stilesville (ct)	01425000	54077			138
Oquaga Creek at Arctic (c)	01425665				140
Oquaga Creek tributary at Arctic (c)	01425670				141
Oquaga Creek near North Sanford (ct)	01425675	82228			142
West Branch Delaware River at Hale Eddy (ct)	01426500	65359		14 0080	144
West Branch Delaware River at Hancock (c)	01427000	81875			147

	IDENTIFICATION NUMBERS USGS	OWDC	EPA	WQS	Page
NORTH ATLANTIC SLOPE BASINS--Continued					
DELAWARE RIVER BASIN--Continued					
Delaware River at Lordville (t)	01427207	65361			148
Delaware River near Callicoon (t)	01427405	65358			149
Callicoon Creek at Callicoon (c)	01427500				150
Delaware River at Skinners Falls (t)	01427705	65362			151
Delaware River at Narrowsburg (c)	01427750				152
Delaware River above Lackawaxen River near Barryville (t)	01428500	65357			153
Lackawaxen River at Hawley, Pa. (c)	01431500	69889			155
Wallenpaupack Creek at Ledgedale, Pa. (c)	01431670				156
Lackawaxen River at mouth at Lackawaxen, Pa. (c)	01432119				157
Delaware River at Barryville (ct)	01432160	65363			158
Mongaup River at Mongaup Valley (c)	01432900	74802			160
Mongaup River below Swinging Bridge Reservoir (c)	01433005	81671			161
Mongaup River near Mongaup (c)	01433500	81629			162
Delaware River at Port Jervis (cts)	01434000	61457		14 0010	163
Neversink River near Claryville (c)	01435000	80860			169
Neversink River at Neversink (c)	01436000	81631			170
Neversink River at Port Jervis (c)	01438000	68072		14 1032	172
SUSQUEHANNA RIVER BASIN					
Susquehanna River at Unadilla (c)	01500500	54079		06 0140	174
Susquehanna River at Conklin (c)	01503000	54082	SUS3		176
Chenango River:					
East Branch Tioughnioga River (head of Tioughnioga River):					
West Branch Tioughnioga River:					
Factory Brook at Homer (c)	01508800	85350			178
West Branch Tioughnioga River at Homer (c)	01508803	82231			180
Tioughnioga River at Cortland (t)	01509000	54085			182
Susquehanna River at C.F.J. Memorial Bridge at Johnson City (c)	01513107	67096	SUS2		183
Susquehanna River at Johnson City (t)	01513110	54086			185
Tioga River (head of Chemung River):					
Cohocton River:					
Fivemile Creek near Kanona (c)	01528000	54092		05 2098	186
Chemung River at Wellsburg (c)	01530900	67097	SUS1		188
OHIO RIVER BASIN					
Allegheny River (head of Ohio River):					
Conewango Creek at Waterboro (c)	03013000	54096		02 1012	190
ST. LAWRENCE RIVER BASIN					
Lake Erie:					
STREAMS TRIBUTARY TO LAKE ERIE					
Buffalo Creek at Gardenville (c)	04214500	54097		01 1108	192
Niagara River (Lake Ontario) at Fort Niagara (c)	04219640	85487		01 0001	194
Lake Ontario:					
STREAMS TRIBUTARY TO LAKE ONTARIO					
Eighteenmile Creek near Newfane (c)	04219765	73495	355400		198
Johnson Creek at Kuckville (c)	04219915	73496	355612		200
Genesee River:					
Black Creek at Churchville (c)	04231000	54100		04 1108	202
Genesee River at Rochester (t)	04232000	54101		04 0003	204
Seneca River (head of Oswego River):					
Owasco Outlet below Auburn (c)	04235505	69073	354305		205
Seneca River at Baldwinsville (t)	04237500	54102		07 1020	207
Salmon River below Pulaski (c)	04250504	73497	355905		208
Black River at Forestport (c)	04250997	73498	355138		210
Black River at Greig (c)	04254965	61455		08 0017	212
Independendence River at Donnattsburg (t)	04256000	54103			214
Beaver River at Moshier Falls (t)	04257150	54120			215
Black River above Carthage (c)	04258710	73499	355114		216
Black River below Carthage (c)	04258750	73500	355102		218
Black River at Huntingtonville (t)	04259980	67093			220
Black River at Watertown (c)	04260500	54104		08 0008	221
Black River below Watertown (c)	04260505	73501	355112		223
ST. LAWRENCE RIVER (MAIN STEM)					
St. Lawrence River at Cape Vincent (c)	04260712	61428		09 0030	225
Oswegatchie River at Gouverneur (c)	04262650	67094	355507		226
Oswegatchie River at Ogdensburg (c)	04263990	61442		09 1300	228
St. Lawrence River at Cornwall, Ontario-near Massena, N.Y. (t)	04264331	54108			229
Grass River above Massena (c)	04265437	82731		09 1203	230
Grass River below Massena Center (c)	04265452	82732		09 1206	231
Raquette River at Massena Springs (c)	04268230	61443		09 1105	232
St. Regis River:					
Deer River at Brasher Iron Works (c)	04269500	54109		09 2428	233
Lake Champlain (main stem Richelieu River):					
La Chute at State Highway 22 at Ticonderoga (c)	04279015	68093		10 1050	235
Lake Champlain (East Bay) near Whitehall (c)	04294402	67087	831056		236
Lake Champlain near Ticonderoga (c)	04294408	67088	831057		238
Lake Champlain near Crown Point (c)	04294410	67089	831058		240

PRECIPITATION-QUALITY STATIONS	Page
Long Island:	
at Mineola (c)	288
at Upton (c)	288
Hudson River basin:	
at Rock Hill (c)	289
near Albany (c)	289
at Hinckley (c)	290
Susquehanna River basin:	
near Athens, Pa. (c)	290
Allegheny River basin:	
at Allegany State Park (c)	291
Lake Ontario basin:	
at Mayo Point (c)	291
St. Lawrence River basin:	
near Canton (c)	292

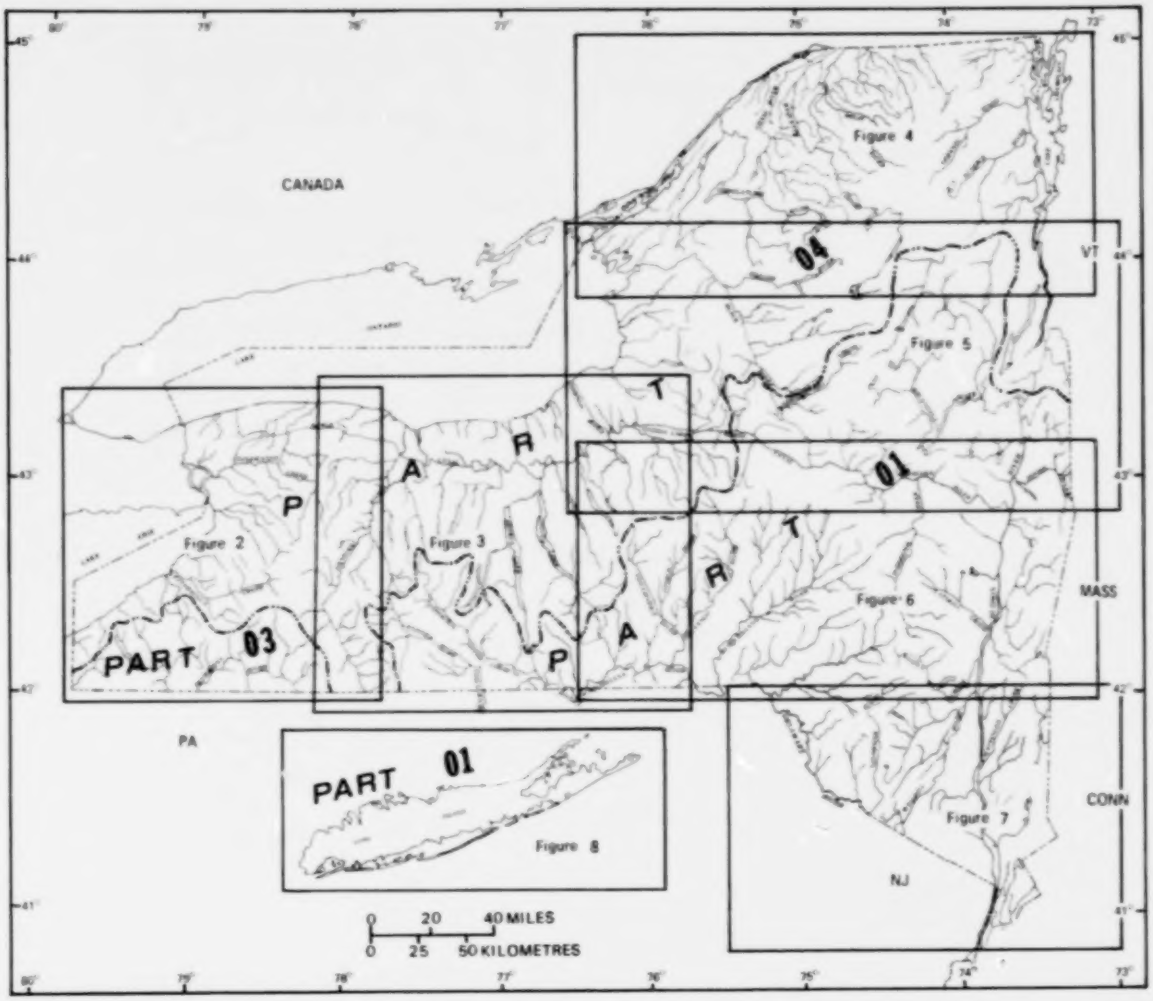
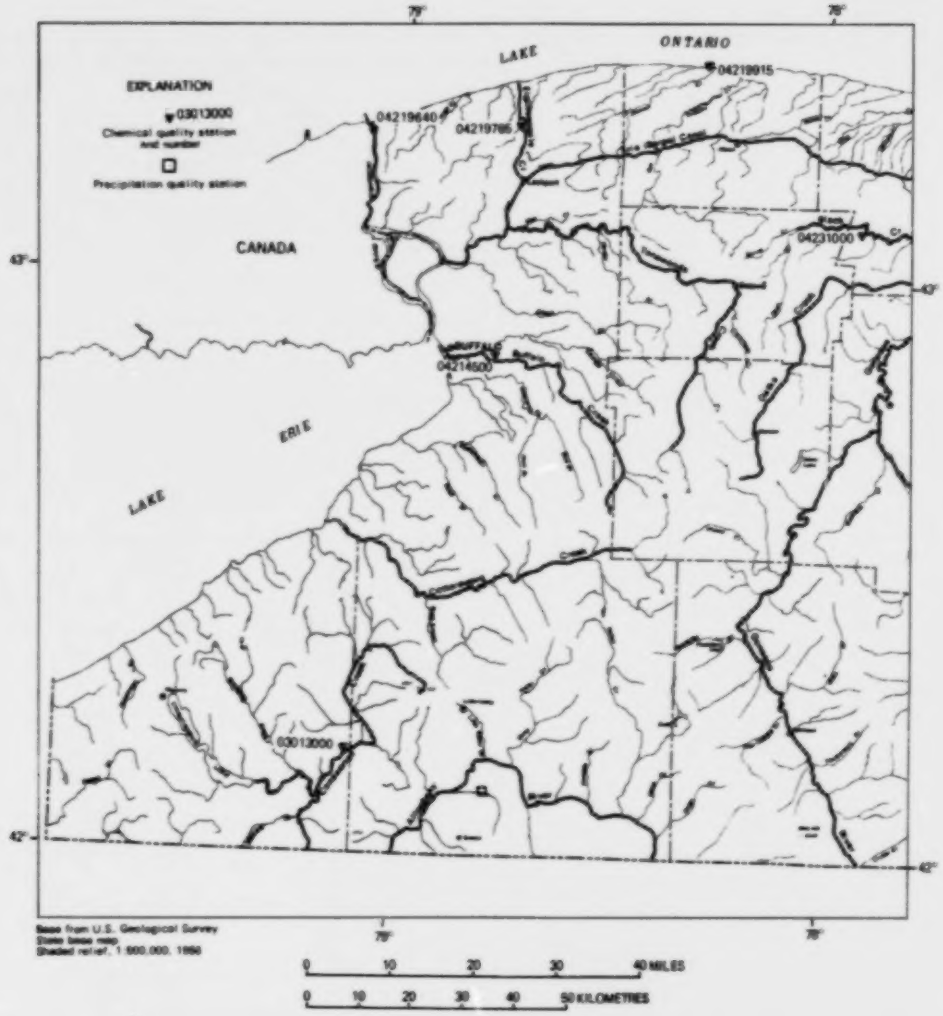

80°
79°
78°
77°
76°
75°
74°
73°
45°
44°
43°
42°
41°
CANADA
LAKE ONTARIO
LAKE ERIE
Figure 4
PART 04
VT
Figure 5
PART 01
Figure 2
Figure 3
PART 03
Figure 6
MASS
PA
PART 01
Figure 8
Figure 7
CONN
NJ
0 20 40 MILES
0 25 50 KILOMETRES

Figure 1.--Index for water-quality station maps.


79°
78°
LAKE
ONTARIO
04219015
EXPLANATION
03013000
Chemical quality station and number
□
Precipitation quality station
04219640
04219785
CANADA
43°
04231000
04214500
LAKE
ERIE
03013000
42°
79°
78°
0
10
20
30
40 MILES
0
10
20
30
40
50 KILOMETRES

Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956

Figure 2.--Location of water-quality stations.

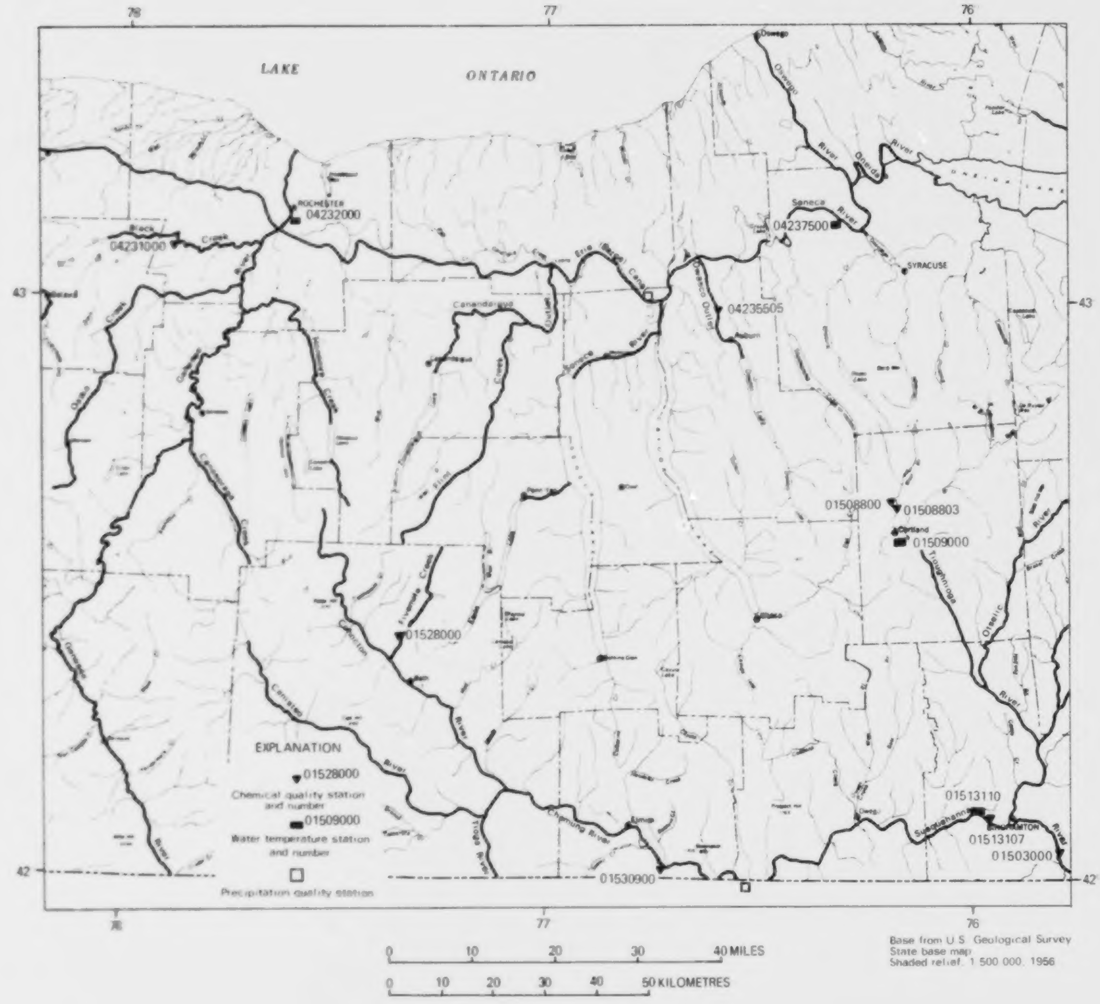

78
77
76
LAKE
ONTARIO
Oswego
Oswego River
Oneida River
ROCHESTER
04232000
Black Creek
04231000
Seneca River
04237500
SYRACUSE
Erie (Barge) Canal
Canandaigua
Seneca River
Canandaigua Outlet
04235505
Auburn
43
01508800
01508803
Cortland
01509000
Tioughnioga River
Otselic River
01528000
Cohocton River
Canisteo River
Tioga River
Chemung River
Elmira
Susquehanna River
01513110
BINGHAMTON
01513107
01503000
01530900
42
EXPLANATION
01528000
Chemical quality station and number
01509000
Water temperature station and number
Precipitation quality station
0 10 20 30 40 MILES
0 10 20 30 40 50 KILOMETRES
Base from U.S. Geological Survey
State base map
Shaded relief, 1 500 000, 1956

Figure 3.--Location of water-quality stations.

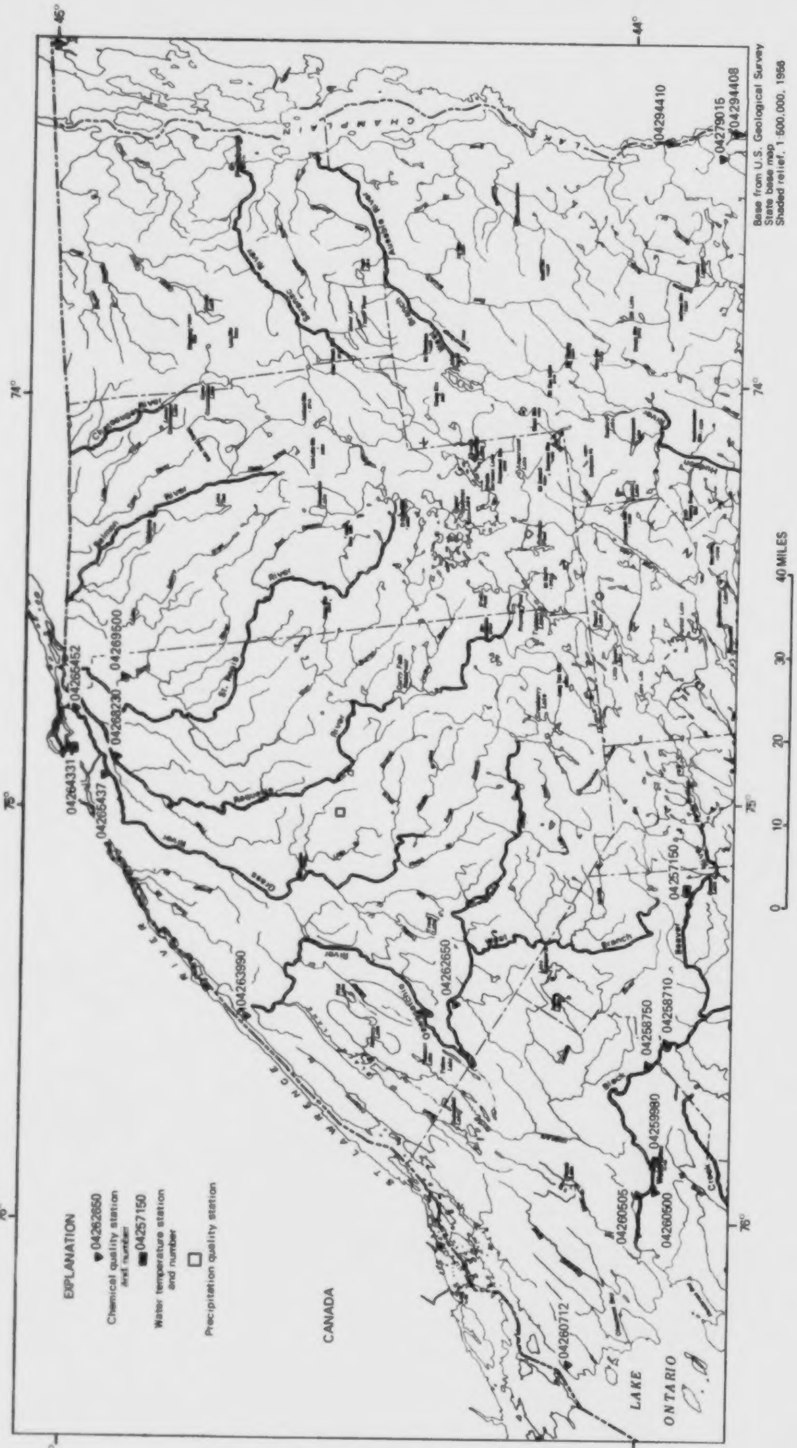
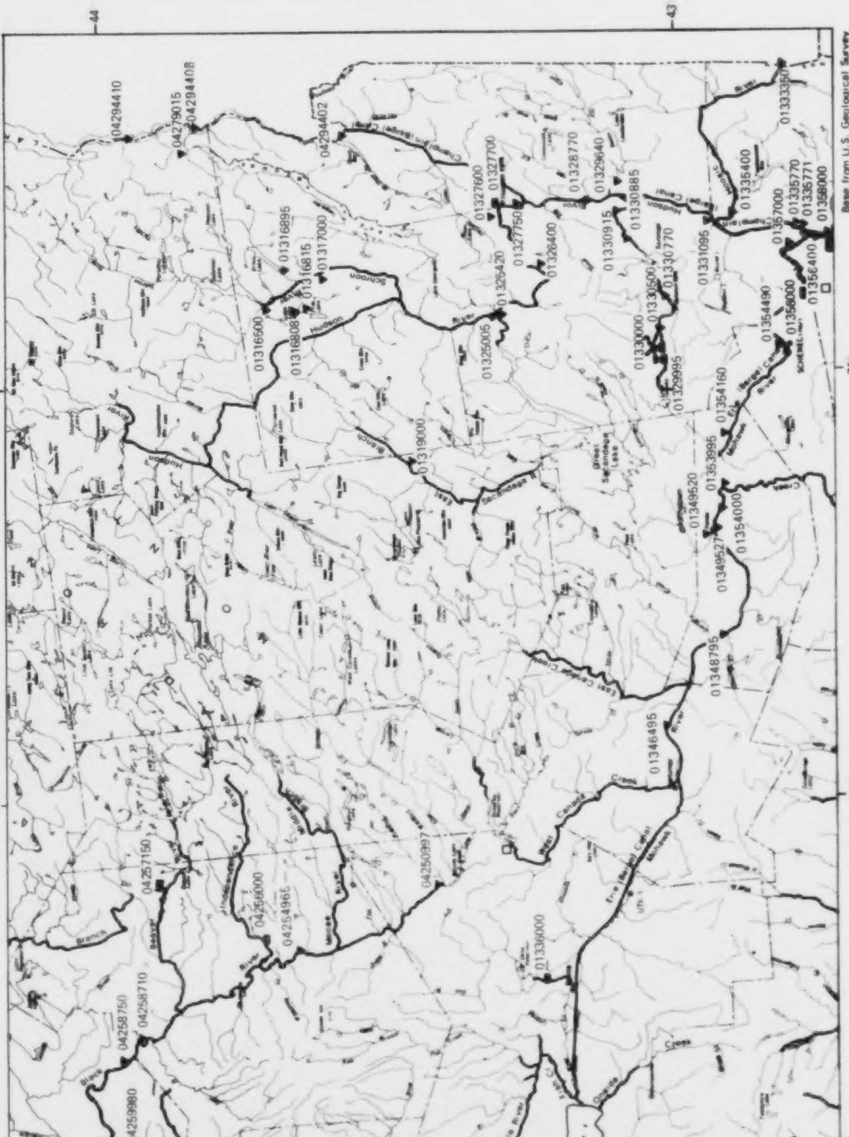

EXPLANATION
04262650 Chemical quality station and number
04257150 Water temperature station and number
Precipitation quality station
CANADA
LAKE ONTARIO
ST LAWRENCE
LAKE CHAMPLAIN
04260712
04260505
04260500
04259980
04258750
04258710
04257150
04262650
04263990
04265437
04264331
04266452
04268230
04269500
04294410
04279015
04294408
45°
44°
74°
75°
76°
0 10 20 30 40 MILES
0 10 20 30 40 50 KILOMETRES
Base from U.S. Geological Survey State base map Shaded relief, 1:500,000, 1956

Figure 4.--Location of water-quality stations.


44
43
74
75
76
CANADA
LAKE ONTARIO
04260712
04260505
04260500
04259980
04258750
04258710
04257150
04256000
04254965
04250997
04250504
04237500
01336000
01346495
01348795
01349527
01349520
01354000
01353995
01354160
01319000
01316500
01316808
01316815
01316895
01317000
01325005
01326420
01326400
01327750
01327600
01327700
01328770
01329640
01330885
01330915
01330770
01330500
01330000
01329995
01331095
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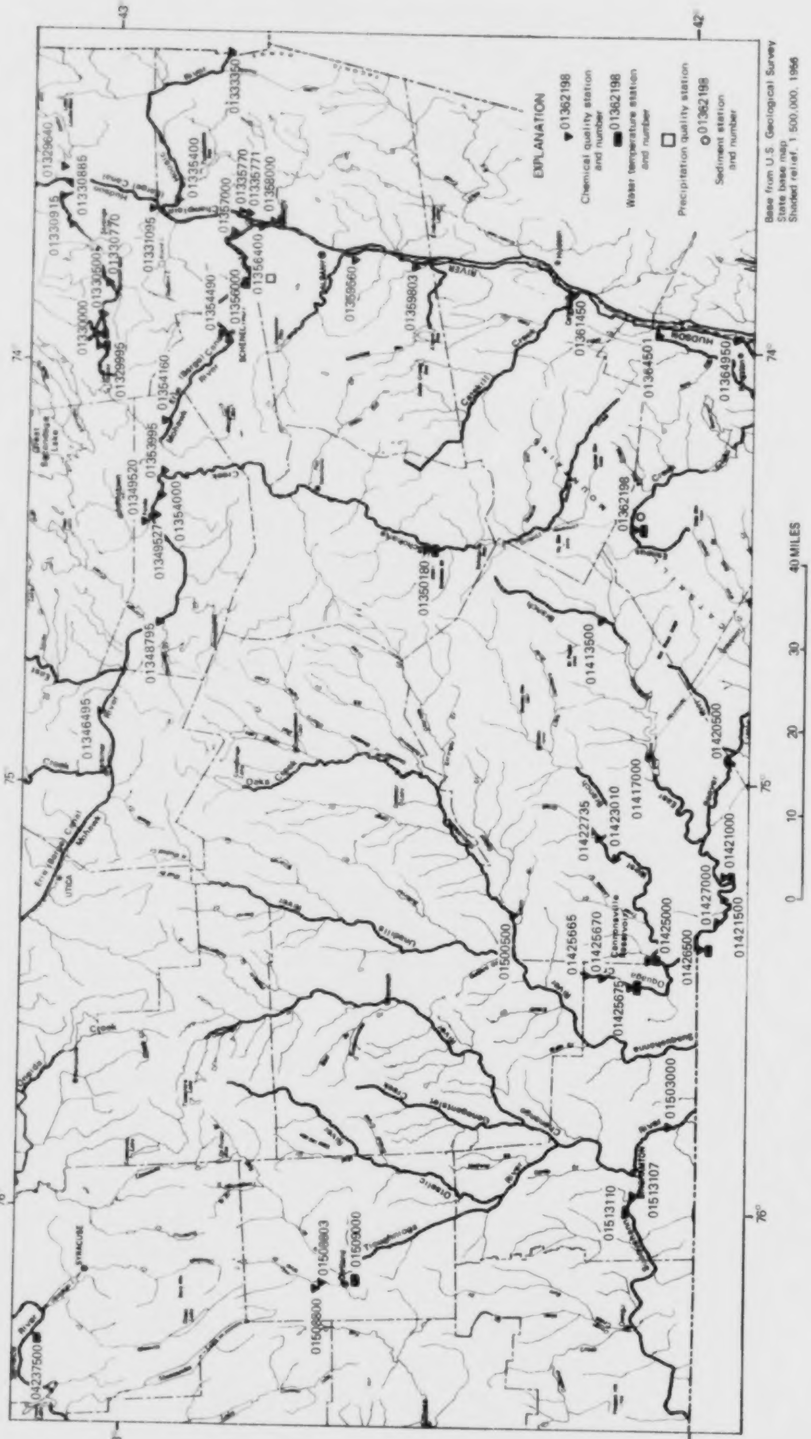
01335770
01335771
01358000
01356400
01356000
01354490
01333500
04294402
04294410
04279015
04294408
Hudson
Schroon
Great Sacandaga Lake
Mohawk River
Black River
Oswego
Little River
0 10 20 30 40 MILES
0 10 20 30 40 50 KILOMETRES
EXPLANATION
▼01319000 Chemical quality station and number
■04256000 Water temperature station and number
□ Precipitation quality station
Base from U.S. Geological Survey State base map Shaded relief: 1:500,000, 1956

Figure 5.--Location of water-quality stations.


43°
42°
74°
75°
76°
EXPLANATION
▼01362198
Chemical quality station and number
■01362198
Water temperature station and number
□
Precipitation quality station
○01362198
Sediment station and number
Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956
0 10 20 30 40 MILES
0 10 20 30 40 50 KILOMETRES
01329640
01330915
01330885
01333350
01335400
01335770
01335771
01358000
01357000
01331095
01330770
01330500
01330000
01329995
01356400
01356000
01354490
01359660
01359803
01354160
01353995
01349520
01349527
01354000
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01348795
01346495
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01420500
01417000
01423010
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01427000
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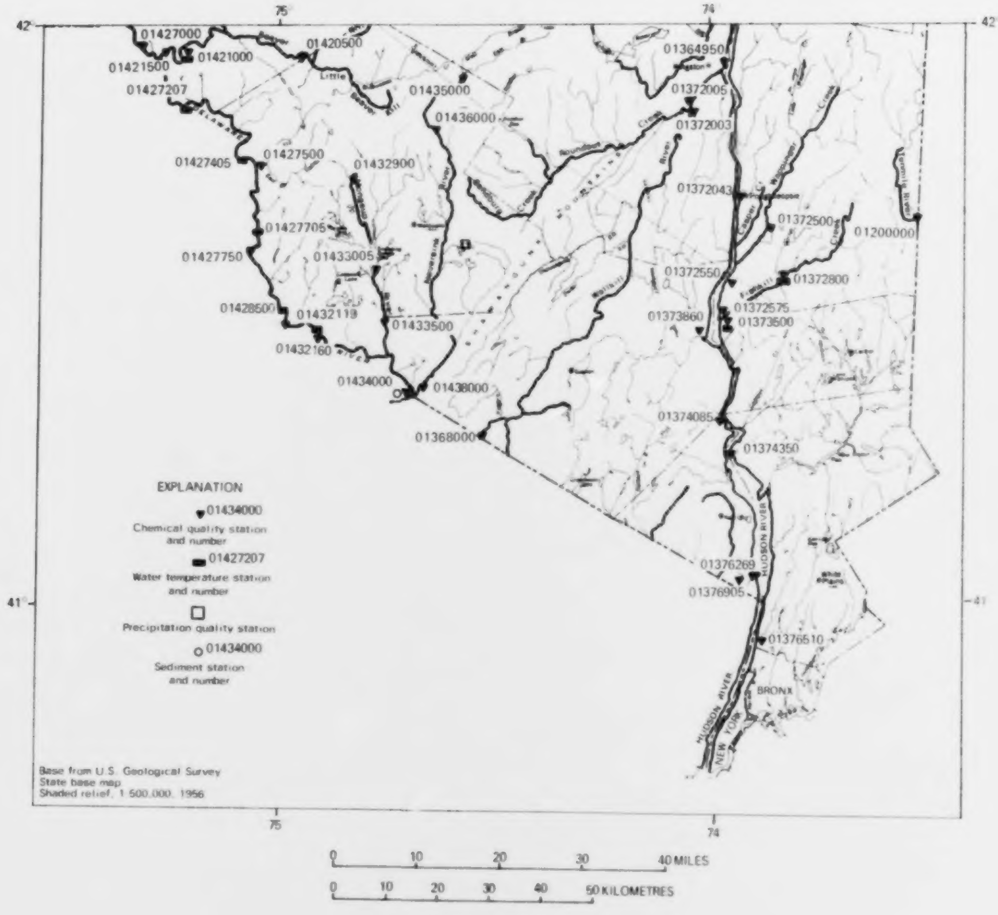
01425000
01426500
01425665
01425670
01425675
01500500
01503000
01513107
01513110
01509803
01509000
01508800
04237500
Great Sacandaga Lake
SCHENECTADY
HUDSON
RIVER
Catskill Creek
Oaks Creek
Unadilla
Erie (Barge) Canal
Mohawk
UTICA
Cannonsville Reservoir
Oneida Creek
Otselic River
Tioughnioga
SYRACUSE

Figure 6.--Location of water-quality stations.



42°
75°
74°
41°
01427000
01421000
01421500
01427207
01420500
01435000
01436000
01364950
01372005
01372003
01427405
01427500
01432900
01372043
01372500
01200000
01427705
01433005
01427750
01372550
01372800
01428500
01432119
01433500
01373860
01372575
01373500
01432160
01434000
01438000
01374085
01368000
01374350
01376269
01376905
01376510
HUDSON RIVER
BRONX
NEW YORK
EXPLANATION
01434000 Chemical quality station and number
01427207 Water temperature station and number
Precipitation quality station
01434000 Sediment station and number
Base from U.S. Geological Survey State base map Shaded relief, 1:500,000, 1956
0 10 20 30 40 MILES
0 10 20 30 40 50 KILOMETRES

Figure 7.--Location of water-quality stations.

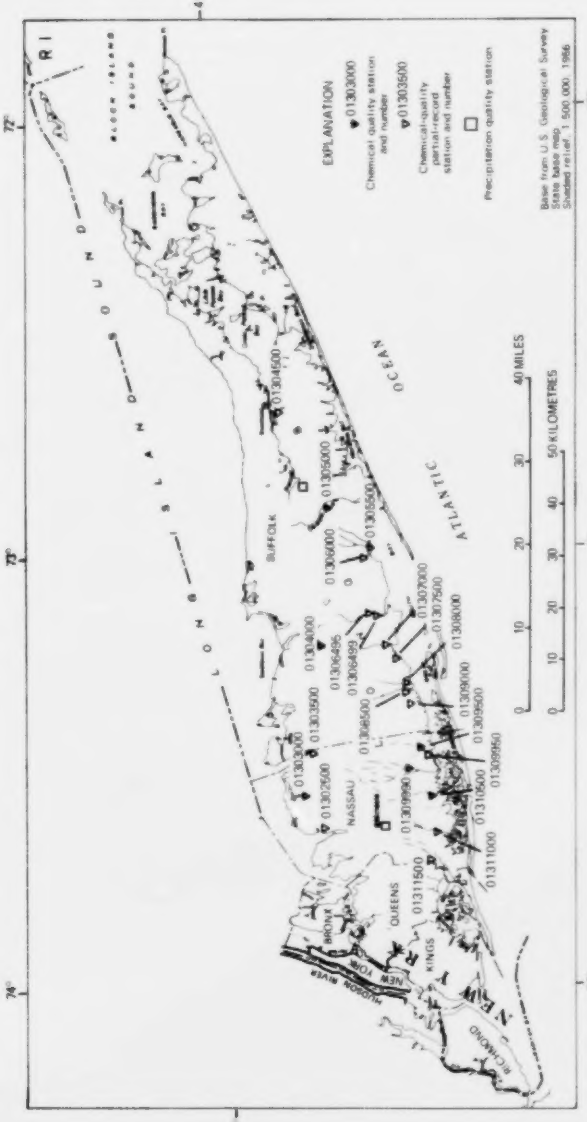

41°
72°
73°
74°
41°
R I
BLOCK ISLAND SOUND
LONG ISLAND SOUND
SUFFOLK
NASSAU
QUEENS
KINGS
BRONX
RICHMOND
NEW YORK
HUDSON RIVER
ATLANTIC OCEAN
01304500
01305000
01305500
01306000
01304000
01306495
01306499
01306500
01303500
01303000
01302500
01307000
01307500
01308000
01309000
01309500
01309950
01309990
01310500
01311000
01311500
0 10 20 30 40 MILES
0 10 20 30 40 50 KILOMETRES
EXPLANATION
01303000 Chemical quality station and number
01303500 Chemical-quality partial-record station and number
□ Precipitation quality station
Base from U.S. Geological Survey State base map Shaded relief 1:500,000 1966

Figure 8.--Location of water-quality stations.

WATER RESOURCES DATA FOR NEW YORK, 1973

Part 2. Water Quality Records

INTRODUCTION

Water resources data for the 1973 water year for New York include records of data for the chemical and physical characteristics of surface, ground, and precipitation water. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of R. J. Dingman, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

The Geological Survey has published records of chemical quality, suspended sediment, and water temperatures since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records also have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. These records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreements with the following organizations:

New York State Department of Environmental Conservation,
  H. L. Diamond, commissioner, succeeded by J. L. Biggane;
  D. E. Metzler, deputy commissioner, Environmental Quality
New York State Power Authority, J. A. Fitzpatrick, chairman
Central New York State Parks Commission, Samuel Perry,
  regional director
County of Cortland, Planning Department, E. T. Jones, director
County of Dutchess, W. H. Bartles, county executive
County of Nassau, Department of Public Works, J. H. Peters,
  commissioner
County of Suffolk, Department of Environmental Control,
  J. M. Flynn, commissioner
County of Suffolk, Water Authority, W. C. Hazlett, chairman
City of Albany, Department of Water and Water Supply,
  W. F. Devane, commissioner
City of New York, Board of Water Supply, V. G. Terenzio,
  chief engineer, succeeded by Martin Hauptman

City of New York, Department of Water Resources, Charles Samowitz, commissioner, Abraham Groopman, chief engineer
Delaware River Basin Commission, J. F. Wright, executive director

Assistance in the form of funds was given by the Atomic Energy Commission and by the Environmental Protection Agency. Three surface-water quality stations were operated from funds appropriated directly to the Geological Survey.

The following organizations supplied water-temperature records:

The municipalities of Cortland and Watertown, Chase Bag Company, New York State Electric and Gas Corporation, Niagara Mohawk Power Corporation, Rochester Gas and Electric Corporation, Texaco Incorporated, Power Authority of the State of New York, New York State Department of Transportation, and Corps of Engineers, U.S. Army.

DEFINITION OF TERMS AND ABBREVIATIONS

Terms related to water-quality and hydrologic data, as used in this report are defined below. See also table 4 for converting English units to International System of units (SI) on the back of the front cover.

Acre-foot (AC-FT, ac-ft) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

> Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or faculative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metalic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per litre, used for the decomposition of organic matter by microorganisms, such as bacteria.

Bottom deposits (bottom material) The sediment mixture of which the streambed is composed.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inches from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Daily mean discharge is the mean discharge for one day.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a given time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per kilogram (UG/KG, ug/kg) A microgram is equal to 0.000001 gram or 10^{-6} gram; a kilogram is approximately the mass of a litre of water at 4°C above the freezing point (one kilogram equals 1,000 grams); therefore, 1 ug/kg = 10^{-6} grams/1,000 grams.

Micrograms per litre (UG/L, ug/l) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per liter is equivalent to one milligram per litre.

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1. Concentration of suspended sediment is also expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture.

Table 1.--Factors for conversion of chemical constituents in milligrams per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})....	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1} ...	.05544	Iron (Fe^{+3}).......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2}).......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})....	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})..	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2}).....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})....	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})......	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})......	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})..	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2}).......	.03060

To convert micrograms per litre, multiply by factor and divide by 1,000.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Pesticides include insecticides and herbicides.

Insecticides are substances or a mixture of substances intended to control, destroy, or repel insects.

Herbicides are substances or a mixture of substances intended to control or destroy any vegetation.

PCB (Polychlorinated biphenyls) Industrial chemicals composed of mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in chemical structure to organochloride insecticides.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Sediment is the solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

Tons per acre-foot indicated the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which included 9 of the 12 months. See calendar on front of back cover. Thus, the year ending September 30, 1973, is called the "1973 water year."

ARRANGEMENT OF DATA AND IDENTIFICATION NUMBERS

Data in this report are divided into three groups: quality of surface water, of ground water, and of precipitation.

Surface-Water Quality Data

Surface-water quality data collected on a regular or continual basis are listed first. These are reported in downstream order along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all main stream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention; each indention represents one rank. Figures 3-9 show the general location of the listed stations. Data for partial-record and miscellaneous surface-water sites are placed in downstream order following the first section.

As an added means of identification, a number has been assigned for each surface-water location where determinations of water quality have been made. The numbers increase with the standard downstream order of listing gaging stations. The numbering system consists of eight digits; for example, 01330000. The first two digits identify the Part or Major basin used by the Geological Survey for reporting hydrologic data. The remaining six digits represent the position of the location in the standard downstream order listing the stations within each of the Parts. The assigned numbers are in increasing numerical order but are not consecutive. They are selected from the complete 8-digit number scale so that intervening numbers will be available for future assignment to new locations.

The Geological Survey identification numbers are cross-referenced in the list of Water-Quality Stations on pages V-VI, with identification numbers assigned by the Federal Environmental Protection Agency and the New York State Department of Environmental Conservation, Water Quality Surveillance for stations in their networks and by the Office of Water Data Coordination for their catalog of Information on Water Data.

Ground-Water Quality Data

Ground-water quality data are grouped alphabetically by county and by well number within the county. The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 13 digits of the well number are the coordinates of the southeast corner of the 1-second grid in which the well is located. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote the degrees, minutes, and seconds of longitude. If the well site is directly on the dividing line of the grid, the coordinates are those of the intersecting line south of the point on a vertical line or east of the point on a horizontal line. (See fig. 9.) The last 2 digits of the well number are sequential numbers for wells within the 1-second grid. The first well in the 1-second grid from which a record is obtained is given the number 1. Each subsequent well is numbered in the order records were obtained. The system provides the geographic location of the well and a unique number for each well.

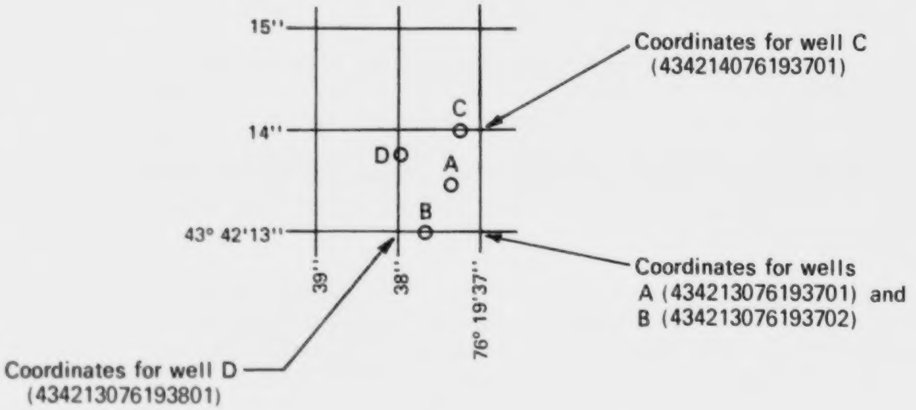

15''
14''
43° 42'13''
39''
38''
76° 19'37''
C
D
A
B
Coordinates for well C
(434214076193701)
Coordinates for wells
A (434213076193701) and
B (434213076193702)
Coordinates for well D
(434213076193801)

Figure 9.--Well location system.

Precipitation Quality Data

Chemical quality of precipitation data are reported for eight stations in New York and for one station just over the border in Pennsylvania (fig. 2-8). The arrangement of the stations is according to the downstream order of the basins. Within the basin, the order of reporting is by latitude and longitude.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variablility of water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966, p. 272). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in micrograms per litre, radium as radium - 226 in picocuries per litre, gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in picocuries per litre, and gross alpha radiation as micrograms of uranium equivalent per litre. Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

EXPLANATION OF WATER QUALITY DATA

Collection and Examination of Data

Many surface-water samples for analyses are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in New York have been released in the report, "Water Resources Data for New York, 1973, Part 1. Surface Water Records." The water discharge reported with analyses in this report is the instantaneous water discharge at the time of sampling. Instantaneous water discharge is determined from the stage-discharge relationship at gaging stations or by measurement at the time of sampling.

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and/or other pertinent data are given in the table containing the chemical analyses of ground water.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October, 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using table 2.

In October, 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," and table 4 for converting English units to SI units.

Table 2.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*

°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86
0.5	33	10.5	51	20.5	69	30.5	87
1.0	34	11.0	52	21.0	70	31.0	88
1.5	35	11.5	53	21.5	71	31.5	89
2.0	36	12.0	54	22.0	72	32.0	90
2.5	36	12.5	54	22.5	72	32.5	90
3.0	37	13.0	55	23.0	73	33.0	91
3.5	38	13.5	56	23.5	74	33.5	92
4.0	39	14.0	57	24.0	75	34.0	93
4.5	40	14.5	58	24.5	76	34.5	94
5.0	41	15.0	59	25.0	77	35.0	95
5.5	42	15.5	60	25.5	78	35.5	96
6.0	43	16.0	61	26.0	79	36.0	97
6.5	44	16.5	62	26.5	80	36.5	98
7.0	45	17.0	63	27.0	81	37.0	99
7.5	45	17.5	63	27.5	81	37.5	99
8.0	46	18.0	64	28.0	82	38.0	100
8.5	47	18.5	65	28.5	83	38.5	101
9.0	48	19.0	66	29.0	84	39.0	102
9.5	49	19.5	67	29.5	85	39.5	103

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximim and minimum values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record.

Temperature

Water temperatures at the time of sample collection are reported for many of the surface-water samples.

At several stations local observers measure the water temperature once or twice daily. These water temperatures are measured at about the same time each day so that the data will reflect long-term rather than diurnal variations in water temperature. Most large streams have small diurnal variation in water temperature; small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. The thermometers used for determining the water temperature were accurate to plus or minus 0.5°C.

In addition, at several stations instruments are installed which record the water temperature continuously or hourly values are punched on paper tape. Maximum and minimum temperatures for each day are obtained from these records.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. At those stations where daily mean concentration and daily suspended sediment discharge are computed samples are commonly collected at a fixed point in the stream cross section. Periodically, samples are collected at several verticals in the cross section to determine the adjustment coefficient required (if any) to determine the mean concentration in the whole cross section of the stream.

During periods of rapidly changing flow or rapidly changing concentration, samples often are collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, the daily sediment discharge was estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and sediment discharge for other periods of similar water discharge.

At stations where only periodical suspended-sediment data is reported samples were collected at several verticals in stream cross sections. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relationships between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

OTHER AVAILABLE DATA

In addition to most of the data in this report, which represent only those stations for which water samples were analysed by the U.S. Geological Survey, other data are available from WQS (Water Quality Surveillance) of the New York State Department of Environmental Conservation. Their Water Quality Data Library includes prior records for many of the stations in this report, data for additional stations operated by or for WQS, and data contributed by other Federal, State, and local agencies, and private industries. Table 5 is a list of stations operated by or for WQS. Water samples collected at these stations during the 1973 water year were analysed by agencies other than the U.S. Geological Survey.

All data in the Water Quality Data Library are available as computer printouts for the requested individual or groups of stations for individual or groups of parameters. Statistical summaries of the data are also available as computer printouts or in periodic publications. Inquiries for these data should be directed to:

New York State Department of
Environmental Conservation
Water Quality Surveillance
50 Wolf Road
Albany, New York 12201

EPA (Environmental Protection Agency) is another source of water-quality data. Data for several stations operated by the U.S. Geological Survey for this Federal agency are included in this report. However, data prior to that indicated in the "Period of Record" for some stations and data for many other locations are available through the EPA Data Storage and Retrieval system (STORET). Inquiries for New York water-quality data in the EPA system should be directed to:

Environmental Protection Agency
Water Quality Office
26 Federal Plaza
New York, New York 10007

A source of information on the availability of additional water-quality data is the "Catalog of Information on Water Data" which can be obtained from:

Office of Water Data Coordination
U.S. Geological Survey
Reston, Virginia 22092

WATER-SUPPLY PAPERS

The table below lists the annual series of water-supply papers that give information of quality of surface waters in New York. Data for the North Atlantic slope basins are given in part 1; for the Ohio River basin, in part 3; and for the St. Lawrence River basin, in part 4.

Table 3.--Water-supply paper numbers and parts, water years 1950-71

Year	Parts 1-4	Year	Parts 1-2	Parts 3-4	Year	Part 1	Part 3	Parts 4-5
1950	1186	1959	1641	1642	1968	2091	2093	2094
1951	1197	1960	1741	1742	1969	2141	2143	2144
1952	1250	1961	1881	1882	1970	a2151	a2153	a2154
1953	1290	1962	1941	1942	1971	a2161	a2163	a2164
1954	1350	1963	1947	1948				
1955	1400	1964	1954	1955				
1956	1450	1965	1961	1962				
1957	1520	1966	1991	1992				
1958	1571	1967	2011	2012				

a In press.

SELECTED REFERENCES

American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater (13th ed.): New York, Am. Public Health Assoc., 874 p.

Barker, F. B., and Johnson, J. O., 1964, Determination of radium in water: U.S. Geological Survey Water-Supply Paper 1696-B, 29 p.

Barker, F. B., and others, 1965, Determination of uranium in natural water: U.S. Geol. Survey Water-Supply Paper 1696-C, 25 p.

Barker, F. B., and Robinson, B. P., 1963, Determination of beta activity in water: U.S. Geol. Survey Water-Supply Paper 1696-A, 32 p.

Barnett, P. R., and Mallory, Jr., E. C., 1971, Determination of minor elements in water by emission spectroscopy: U.S. Geol. Survey Techniques of Water Resources Inv., book 5, chap. A2, 31 p.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

SELECTED REFERENCES

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5 chap. A3, 40 p.

Goerlitz, D. F., and Lamar, W. L., 1967, Determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-C, 21 p.

Guy, H. P. 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.

_____, 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water (2d ed.): U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Lamar, W. L., Goerlitz, D. F., and Law, L. M., 1965, Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-B, 12 p.

Lane, E. W., and others, 1947, Report of subcommittee on sediment terminology: Am. Geophys. Union Trans., v. 28, no. 6, p. 936-938.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Lohman, S. W., and others, 1972, Definitions of selected ground-water terms--revisions and conceptual refinements: U.S. Geol. Survey Water-Supply Paper 1988, p. 21.

SELECTED REFERENCES

Porterfield, George, 1972, Computations of fluvial-sediment discharge: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C3, 66 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3, 33 p (open file).

Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Pub. Corp., New York, 7th ed.

Showen, C. R., and Williams, O. O., 1973, Index to Water-quality data available from the U.S. Geological Survey in machine-readable form to December 31, 1972, northeast region: U.S. Geol. Survey Water-Resources Investigations 21-73, 88 p.

Showen, C. R., and Stuthmann, N. G., 1973, Index to U.S. Geological computer files containing daily values for water parameters to September 30, 1971, Northeast region: U.S. Geol. Survey Water Resources Investigations 25-73, 358 p.

Slack, K. V., and others, 1973, Methods for collection and analysis of aquatic, biological and microbiological samples: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A-4, 165 p.

U.S. Geological Survey, Office of Water Data Coordination, 1973, Station listings for part A, Streamflow and stage; part 2, Quality of surface water; and part 3, Quality of ground water (1973 ed.). Three regional reports as follows:

Water Resources, Region 02 (Middle Atlantic), 197 p;
Water Resources, Region 04 (Great Lakes), 147 p; and
Water Resources, Region 05 (Ohio), 213 p.

Woodard, T. H., and Heidel, S. G., 1964, Inventory of published and unpublished chemical analyses of surface waters in the continental United States and Puerto Rico, 1961: U.S. Geol. Survey Water-Supply Paper 1786, 490 p.

Table 4.--Factors for converting English units to International System (SI) units

The following factors may be used to convert English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4,047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometre (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	$3.785x10^{-3}$	cubic metres (m^3)
million gallons (10^6 gal)	3,785	cubic metres (m^3)
	$3.785x10^{-3}$	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-day (ft^3/s-day)	2,447	cubic metres (m^3)
	$2.447x10^{-3}$	cubic hectometres (hm^3)
acre-feet (acre-ft)	1,233	cubic metres (m^3)
	$1.233x10^{-3}$	cubic hectometres (hm^3)
	$1.233.10^{-6}$	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	$6.309x10^{-5}$	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
ton (short)	.9027	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p.13, 1972 edition.

NORTH ATLANTIC SLOPE BASINS

HOUSATONIC RIVER BASIN

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, at gaging station 0.1 mi (0.2 km) downstream from Deuel Hollow Brook, 1.2 mi (1.9 km) upstream from New York-Connecticut state line, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Gaylordsville.

DRAINAGE AREA.--203 mi² (526 km²).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1959, October 1972 to September 1973.
Water temperatures: October 1958 to September 1959.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT.										
20...	1000	94	5.4	180	10	53	17	7.1	2.8	211
NOV.										
17...	1005	690	6.0	300	20	31	11	4.3	2.3	120
DEC.										
19...	1200	530	6.4	230	0	37	14	4.7	1.5	143
JAN.										
23...	1030	1000	4.0	780	420	29	11	4.0	2.1	112
FEB.										
21...	1300	352	5.2	350	0	38	14	4.8	1.5	140
MAR.										
20...	1300	785	4.4	780	50	32	11	4.0	1.5	120
APR.										
17...	1040	506	3.4	230	0	33	11	4.2	1.4	128
MAY										
24...	0940	640	4.4	440	20	31	11	5.4	1.1	126
JUNE										
18...	1030	150	3.3	170	40	43	17	5.6	1.8	187
JULY										
20...	1050	200	3.1	170	10	42	16	5.7	1.7	184
AUG.										
21...	0850	77	4.8	180	10	50	19	6.3	2.4	218
SEP.										
18...	1000	68	4.7	110	20	50	22	8.1	2.8	214

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT.										
20...	1	175	24	13	.1	1.0	.00	.63	.25	.07
NOV.										
17...	0	98	18	6.9	.0	.82	.02	.48	.05	.04
DEC.										
19...	0	117	22	8.0	.1	1.3	.00	--	.02	.02
JAN.										
23...	0	92	18	6.0	.1	1.4	.00	.93	.38	.08
FEB.										
21...	0	115	22	6.5	.0	1.5	.03	.14	.03	.02
MAR.										
20...	0	98	18	7.5	.0	1.0	.00	.35	.04	.01
APR.										
17...	0	105	19	7.0	.1	.88	.02	.25	.02	.01
MAY										
24...	0	103	16	6.0	.2	.58	.02	.17	.05	.01
JUNE										
18...	0	153	16	9.5	.1	1.0	.05	.07	.06	.04
JULY										
20...	0	151	17	.9	.2	.69	.00	.04	.03	.03
AUG.										
21...	0	179	18	11	.2	1.3	.00	.13	.08	.07
SEP.										
18...	0	176	25	14	.3	1.1	.00	.11	.07	.07

HOUSATONIC RIVER BASIN

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.									
20...	232	2	239	170	200	28	397	8.4	4.5
NOV.									
17...	142	26	172	123	120	22	249	8.0	2.0
DEC.									
19...	170	10	188	145	150	33	307	8.0	1.0
JAN.									
23...	137	244	340	291	120	26	245	7.6	1.5
FEB.									
21...	170	3	173	144	150	38	301	7.9	1.5
MAR.									
20...	142	24	172	134	130	27	240	8.1	4.5
APR.									
17...	146	5	170	123	130	23	267	7.8	10.0
MAY									
26...	138	9	167	155	120	19	248	8.5	13.0
JUNE									
18...	193	3	220	169	180	24	345	8.1	17.0
JULY									
20...	181	2	214	161	170	20	343	8.2	20.5
AUG.									
21...	225	3	236	183	200	24	394	8.0	20.0
SEP.									
18...	237	0	261	195	220	40	416	8.0	18.0

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
20...	10.4	81	5	300	92	--	--	--	--	--
NOV.										
17...	11.8	86	8	4400	160	.0	--	0	2	<.5
DEC.										
19...	11.5	82	16	460	46	.0	--	--	--	--
JAN.										
23...	11.8	85	27	5000	1400	.0	--	--	--	--
FEB.										
21...	14.2	102	4	B190	36	.0	--	--	--	--
MAR.										
20...	12.6	98	5	B50	B13	.0	--	--	--	--
APR.										
17...	11.2	100	4	1100	55	.0	--	--	--	--
MAY										
26...	10.5	100	6	1200	180	.0	--	--	--	--
JUNE										
18...	8.7	89	7	B820	92	.0	--	--	--	--
JULY										
20...	9.8	108	5	4500	180	.0	--	--	--	--
AUG.										
21...	8.5	92	5	B6600	110	.0	--	--	--	--
SEP.										
18...	9.2	92	8	B4000	B200	.0	0	0	0	<.5

B Results based on colony count outside the acceptable range (non-ideal colony count).

01303000 MILL NECK CREEK AT MILL NECK, N.Y.

LOCATION.--Lat 40°53'15", long 73°33'51", Nassau County, at gaging station on right bank at Beaver Dam, 30 ft (9 m) upstream from Feeks Lane (Cleft Road) bridge in Mill Neck, and 1.5 mi (2.4 km) southwest of Bayville.

DRAINAGE AREA.--About 11.5 mi² (30 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
02...	1100	6.3	7.3	370	30	12	4.3	12	1.7	36	0
NOV.											
10...	1200	13	7.1	750	10	11	5.5	29	3.0	24	0
DEC.											
26...	1130	9.2	7.5	260	20	9.6	5.1	29	1.0	16	0
FEB.											
01...	1100	9.6	9.4	390	20	12	4.2	12	1.5	24	0
21...	1500	8.1	9.6	320	20	10	3.6	12	1.3	22	0
APR.											
30...	1215	10	4.3	480	20	13	5.4	24	1.0	28	0
MAY											
31...	1130	9.6	4.5	350	20	11	4.0	12	1.4	32	0
JUNE											
29...	1345	15	7.2	58	70	9.9	3.7	9.6	1.7	31	0
AUG.											
01...	1015	8.4	6.0	500	90	12	3.9	11	1.4	35	0
SEP.											
21...	1315	9.6	5.5	1200	110	9.2	3.5	8.0	1.5	26	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT.										
02...	30	21	17	.0	.64	.01	1.2	1.3	.08	97
NOV.										
10...	20	24	49	.2	1.0	.08	.09	.66	.09	145
DEC.										
26...	13	18	50	.1	1.2	.02	.09	.26	.08	134
FEB.										
01...	20	19	18	.2	1.9	.01	.07	.34	.03	97
21...	18	17	18	.1	1.6	.02	.08	.32	.01	90
APR.										
30...	23	22	39	.2	.89	.09	.10	.47	--	128
MAY										
31...	26	16	18	.2	.58	.02	.16	.35	.03	86
JUNE										
29...	25	11	17	.3	.76	.08	.07	.66	.05	79
AUG.										
01...	29	15	18	.3	.59	.00	.19	.41	.05	86
SEP.										
21...	21	15	12	.7	.73	.03	.13	.28	.04	72

01303000 MILL NECK CREEK AT MILL NECK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
02...	48	18	156	7.3	17.0	.0	--	--	--	--
NOV.										
10...	50	30	280	7.0	8.0	.0	10	0	9	--
DEC.										
26...	45	32	236	7.2	5.0	.0	--	--	--	--
FEB.										
01...	47	28	162	7.0	3.0	.0	--	--	--	--
21...	40	22	190	7.4	4.0	.0	--	--	--	--
APR.										
30...	55	32	231	6.5	15.0	.0	0	0	4	.6
MAY										
31...	44	18	150	7.3	23.0	.0	--	--	--	--
JUNE										
29...	40	15	140	7.2	25.0	.0	--	--	--	--
AUG.										
01...	46	17	180	7.6	27.0	.0	--	--	--	--
SEP.										
21...	37	16	140	7.1	17.0	.0	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LITHIUM (LI) (UG/L)
NOV.								
10...	1200	200	0	10	0	0	1	0

DATE	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.							
10...	0	2	3	0	110	1.6	20

01305000 CARMANS RIVER AT YAPHANK, N.Y.

LOCATION.--Lat 40°49'49", long 73°54'24", Suffolk County, at gaging station on left bank 50 ft (15 m) upstream from Long Island Railroad bridge, 0.2 mi (0.3 km) northeast of Yaphank Station, and 0.5 mi (0.8 km) southeast of Yaphank.

DRAINAGE AREA.--About 71 mi^2 (184 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 02...	1300	18	11	260	60	6.1	2.4	9.0	1.3	19	0
NOV. 10...	1025	23	13	420	80	7.0	2.5	7.0	1.0	18	0
DEC. 26...	1000	27	11	470	90	7.0	2.3	7.5	.8	15	0
FEB. 01...	1000	20	11	1800	22	7.8	2.2	6.5	.9	13	0
21...	1100	31	11	270	90	7.8	2.2	6.6	.9	14	0
MAY 03...	1045	37	11	710	100	6.8	2.0	6.7	.8	16	0
31...	0915	36	11	490	60	7.3	2.4	7.0	1.8	19	0
JUNE 27...	1245	38	11	220	60	6.4	2.4	7.2	1.5	17	0
AUG. 01...	0830	32	7.9	340	60	6.5	2.4	7.0	.8	18	0
SEP. 17...	1045	30	9.0	2600	490	6.8	2.5	6.3	.9	17	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 02...	16	10	11	.0	.61	.00	.05	.31	.01	63
NOV. 10...	15	11	11	.1	.80	.01	.09	.22	.01	65
DEC. 26...	12	12	11	.1	.90	.00	.08	.25	.01	63
FEB. 01...	11	11	10	.0	.90	.00	.02	.47	.07	60
21...	11	12	10	.0	.90	.00	.01	.17	.02	61
MAY 03...	13	12	10	.3	.59	.00	.09	.30	.01	60
31...	16	11	12	.4	.58	.02	.15	.31	.01	65
JUNE 27...	14	9.0	12	.2	.75	.00	.03	.25	.02	61
AUG. 01...	15	12	11	.2	.74	.00	.01	.17	.01	60
SEP. 17...	14	11	11	.2	.81	.00	.00	.04	.01	60

01305000 CARMANS RIVER AT YAPHANK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
02...	25	10	96	7.2	17.0	.0	--	--	--	--
NOV.										
10...	28	13	110	7.1	9.0	.0	0	0	1	--
DEC.										
26...	27	15	160	6.6	5.0	.0	--	--	--	--
FEB.										
01...	29	18	92	6.9	3.0	.0	--	--	--	--
21...	29	17	110	6.6	7.0	.0	--	--	--	--
MAY										
03...	25	12	100	7.0	17.0	.0	10	0	2	<.5
31...	28	13	103	6.7	18.5	.0	--	--	--	--
JUNE										
27...	26	12	102	6.3	20.0	.0	--	--	--	--
AUG.										
01...	26	11	105	6.1	21.0	.0	--	--	--	--
SEP.										
17...	27	13	105	6.4	16.0	.0	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LITHIUM (LI) (UG/L)
NOV.								
10...	1025	0	0	0	0	0	0	0

DATE	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.							
10...	0	2	3	0	60	1.4	0

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.

LOCATION.--Lat 40°41'20", long 73°27'19", Nassau County, at gaging station on left bank 350 ft (107 m) west of Garfield Street at Lake Shore Drive, Massapequa, 0.2 mi (0.3 km) north of Massapequa Park, and 3,000 ft (914 m) upstream from Clark Avenue Bridge and head of Massapequa Pond of Brooklyn water-supply system.

DRAINAGE AREA.--About 38 mi^2 (98.4 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
02...	0900	4.3	8.6	1200	1600	19	4.5	28	6.2	14	0
NOV.											
10...	1425	16	8.8	500	1200	19	4.0	26	5.6	36	0
DEC.											
26...	1315	13	9.5	460	1700	20	4.0	29	5.8	9	0
FEB.											
01...	1240	13	9.1	460	1800	22	4.2	31	6.4	35	0
23...	1330	20	9.2	380	1800	22	4.3	31	6.0	28	0
MAY											
01...	0900	23	7.6	130	1200	21	3.9	26	5.3	33	0
31...	1300	21	7.0	140	640	21	3.7	28	5.4	31	0
JULY											
09...	1245	16	8.7	100	200	21	4.0	27	6.2	11	0
AUG.											
01...	1200	14	8.4	90	270	20	3.6	26	5.5	12	0
SEP.											
20...	1400	11	9.6	1100	3600	21	3.9	29	6.6	16	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT.										
02...	11	51	32	1.4	9.1	1.2	2.1	.22	.02	201
NOV.										
10...	30	40	30	.5	5.9	.21	2.5	1.2	.02	181
DEC.										
26...	7	43	34	.1	16	.00	.05	.01	.02	221
FEB.										
01...	29	59	28	.2	8.2	.01	4.0	.14	.03	219
23...	23	60	35	1.0	8.5	.03	4.0	.00	.02	225
MAY										
01...	27	54	28	.2	7.3	.03	2.5	.09	.01	198
31...	25	47	33	1.4	7.9	.06	2.6	.09	.01	200
JULY										
09...	9	48	31	.2	9.2	.10	.05	.64	.02	192
AUG.										
01...	10	47	29	.2	10	.00	1.0	.20	.01	191
SEP.										
20...	13	47	31	.3	9.9	.02	1.7	--	.02	202

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
02...	66	54	325	6.4	17.0	.0	--	--	--	--
NOV.										
10...	64	34	300	7.0	14.0	.2	0	0	11	--
DEC.										
26...	66	59	305	7.3	8.0	.1	--	--	--	--
FEB.										
01...	72	44	366	7.4	8.0	.2	--	--	--	--
23...	73	50	365	6.4	10.0	.1	--	--	--	--
MAY										
01...	69	41	319	7.2	13.0	.2	0	0	5	.5
31...	68	42	318	6.5	21.0	.1	--	--	--	--
JULY										
09...	69	60	320	5.2	22.0	.1	--	--	--	--
AUG.										
01...	65	55	310	4.7	20.0	.1	--	--	--	--
SEP.										
20...	69	55	340	5.6	20.0	.1	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LITHIUM (LI) (UG/L)
NOV.								
10...	1425	0	0	180	3	0	1	0

DATE	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.							
10...	0	3	2	0	150	.0	30

01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.

LOCATION.--Lat 40°39'56", long 73°34'13", Nassau County, at gaging station on right bank in Freeport, 24 ft (7 m) upstream from bridge on Hempstead-Babylon Turnpike and 400 ft (122 m) west of Meadowbrook Parkway.

DRAINAGE AREA.--About 31 mi^2 (80 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 02...	0830	1.9	7.0	300	640	21	4.2	56	4.9	34	0
NOV. 10...	1545	12	6.2	380	650	15	3.5	48	3.8	34	0
DEC. 26...	1345	11	8.3	330	1100	22	4.3	48	4.6	27	0
FEB. 01...	1330	12	7.1	860	710	21	4.3	110	4.5	26	0
23...	1000	11	8.6	4000	1200	24	4.6	52	4.7	43	0
APR. 30...	1015	16	8.8	260	1200	27	4.5	35	4.7	23	0
MAY 31...	1430	14	7.3	500	660	20	4.3	43	3.5	29	0
JULY 02...	1100	16	8.2	380	600	20	4.4	49	3.6	29	0
AUG. 01...	1315	8.2	8.2	440	380	21	4.2	50	3.6	35	0
SEP. 21...	0945	5.2	13	6900	460	16	5.7	11	2.6	42	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 02...	28	43	79	.1	4.1	.07	.86	.97	.02	252
NOV. 10...	28	28	72	.2	2.9	.07	1.3	.43	.02	208
DEC. 26...	22	49	60	--	5.5	.03	.88	.09	.00	237
FEB. 01...	21	37	160	.1	5.4	.22	.03	.42	.04	381
23...	35	52	69	.1	7.2	.03	2.5	.80	.00	271
APR. 30...	19	57	40	.1	9.3	2.6	.15	.66	--	230
MAY 31...	24	31	64	.6	4.9	.32	.08	1.3	.03	210
JULY 02...	24	34	67	.3	5.4	.02	.03	1.1	.03	225
AUG. 01...	29	35	68	.2	4.5	.00	.60	.08	.04	228
SEP. 21...	34	25	16	.4	3.1	.06	.77	.09	.04	125

01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
02...	70	42	464	7.0	17.0	.1	--	--	--	--
NOV.										
10...	52	24	385	7.2	12.0	.1	0	0	46	--
DEC.										
26...	73	51	460	5.2	8.0	.1	--	--	--	--
FEB.										
01...	70	49	710	7.1	4.0	.1	--	--	--	--
23...	79	44	485	6.7	5.5	.0	--	--	--	--
APR.										
30...	86	67	368	7.0	14.0	.2	0	0	11	.5
MAY										
31...	68	44	374	6.5	20.0	.1	--	--	--	--
JULY										
02...	68	44	414	7.1	21.0	.0	--	--	--	--
AUG.										
01...	70	41	420	5.5	23.0	.0	--	--	--	--
SEP.										
21...	63	29	201	7.1	--	.0	--	--	--	--

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LITHIUM (LI) (UG/L)
NOV.								
10...	1545	200	0	70	1	0	1	0

DATE	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	TOTAL VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.							
10...	0	3	3	0	110	.9	70

01316500 SCHROON LAKE AT POTTERSVILLE, N.Y.

LOCATION.--Lat 43°43'40", long 73°48'40", Warren County, at outlet at bridge on River Road, 0.8 mi (1.3 km) upstream from Trout Brook and 0.8 mi (1.3 km) east of Pottersville.

DRAINAGE AREA.--317 mi² (821 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 11...	1130	5.7	30	0	7.2	1.0	1.9	.1	16	0	13	7.7
JUNE 26...	1310	5.6	30	0	6.1	.9	1.8	.2	14	0	11	8.1
SEP. 17...	1300	4.8	140	10	6.6	1.2	2.0	.1	17	0	14	6.7

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT. 11...	2.5	.0	.05	.00	.33	.03	.00	34	3	0	43
JUNE 26...	2.1	.1	.09	.00	.11	.00	.00	32	0	0	39
SEP. 17...	3.0	.2	.03	.00	.03	.00	.00	33	0	0	45

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 11...	31	22	9	53	7.4	8	.0	--	--	--	--
JUNE 26...	26	19	7	49	7.1	8	.0	0	0	6	16
SEP. 17...	27	21	7	55	6.9	10	.0	1	0	2	3.0

01316808 LOON LAKE NEAR CHESTERTOWN, N.Y.

LOCATION.--Lat 43°44'40", long 73°50'20", Warren County, at dam, at outlet of lake, at U.S. Highway 9 and State Highway 8, and 1.6 mi (2.6 km) northwest of Chestertown.

DRAINAGE AREA.--13.0 mi² (33.7 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 11...	1150	3.3	110	0	8.1	1.2	3.5	.2	21	0	17	7.4
JUNE 26...	1400	3.7	140	10	7.2	1.0	4.0	.3	19	0	16	7.4
SEP. 17...	1330	2.8	100	20	7.0	1.1	4.4	.1	20	0	16	6.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT. 11...	5.1	.0	.00	.00	.31	.00	.00	39	3	0	50
JUNE 26...	5.1	.1	.00	.00	.17	.00	.00	38	2	0	49
SEP. 17...	6.0	.3	.01	.00	.17	.05	.01	38	0	0	50

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 11...	36	25	8	66	7.3	12	.0	--	--	--	--
JUNE 26...	36	22	7	65	7.0	9	.0	0	0	5	3.6
SEP. 17...	34	22	6	68	6.9	10	.0	3	0	2	3.9

01316815 FRIENDS LAKE NEAR CHESTERTOWN, N.Y.

LOCATION.--Lat 43°38'12", long 73°50'25", Warren County, on east side of lake, 0.2 mi (0.3 km) south of outlet and 2.0 mi (3.2 km) southwest of Chestertown.

DRAINAGE AREA.--5.70 mi² (14.76 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 11...	1205	2.0	60	0	6.9	1.1	1.6	.4	19	0	16	6.5
JUNE 26...	1430	2.4	30	0	6.1	1.0	1.6	.3	18	0	15	7.1
SEP. 17...	1400	2.0	40	20	6.0	1.0	1.5	.1	18	0	15	5.5

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT. 11...	1.5	.0	.00	.00	.29	.00	.00	30	2	0	42
JUNE 26...	1.5	.1	.00	.00	.03	.01	.00	29	1	0	37
SEP. 17...	1.3	.2	.00	.00	.14	.01	.00	27	0	0	42

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 11...	28	22	6	50	7.4	9	.0	--	--	--	--
JUNE 26...	26	19	5	48	7.0	7	.0	0	0	5	6.2
SEP. 17...	26	19	4	47	6.9	12	.0	0	0	2	1.0

01316895 BRANT LAKE OUTLET AT BRANT LAKE, N.Y.

LOCATION.--Lat 43°41'10", long 73°44'30", Warren County, at bridge on County Highway 26 and 0.1 mi (0.2 km) northeast of State Highway 8 in Brant Lake.

DRAINAGE AREA.--39.3 mi^2 (101.8 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT.												
11...	1110	2.3	20	0	11	1.4	2.3	.5	28	0	23	9.8
JUNE												
26...	1230	1.7	50	20	9.3	1.2	2.1	.4	25	0	21	8.0
SEP.												
17...	1230	2.0	20	10	9.9	1.4	2.5	.1	25	0	21	7.5

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT.											
11...	3.8	.0	.00	.00	.33	.00	.00	44	3	0	55
JUNE											
26...	2.9	.1	.00	.00	.23	.00	.00	38	1	0	52
SEP.											
17...	3.2	.2	.01	.00	.11	.00	.00	39	0	0	54

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
11...	47	33	10	77	7.5	9	.0	--	--	--	--
JUNE											
26...	37	28	8	70	7.2	7	.0	0	0	7	3.7
SEP.											
17...	43	30	10	74	7.3	9	.0	2	0	3	2.5

01317000 SCHROON RIVER AT RIVERBANK, N.Y.

LOCATION.--Lat 43°36'34", long 73°44'17", Warren County, at former gaging station, at highway bridge, at Riverbank, 0.6 mi (1.0 km) upstream from Alder Brook, 6.4 mi (10.3 km) downstream from dam at Starbuckville, and 11.8 mi (19.0 km) downstream from Schroon Lake.

DRAINAGE AREA.--527 mi² (1,365 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT. 11...	0955	8.0	190	0	10	1.6	2.5	.5	27	0	22	8.8
MAY 01...	1030	6.1	40	0	6.4	1.0	1.8	.1	14	0	11	8.4
JUNE 26...	1145	5.6	80	0	7.1	1.0	2.5	.7	18	0	15	8.5
SEP. 17...	1200	5.8	120	30	11	2.0	3.2	.1	31	0	25	7.5

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT. 11...	4.0	.0	.08	.00	.32	.00	.00	49	3	0	65
MAY 01...	2.6	.1	.17	.00	.25	.00	.00	34	0	0	44
JUNE 26...	2.6	.1	.09	.00	.00	.00	.00	38	0	0	47
SEP. 17...	5.5	.2	.38	.00	.09	.01	.00	52	0	0	70

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 11...	44	32	9	74	7.3	15	.0	--	--	--	--
MAY 01...	28	20	9	53	6.6	6	.0	--	--	--	--
JUNE 26...	33	22	7	56	7.1	7	.0	10	8	9	6.9
SEP. 17...	46	36	10	90	7.4	9	.0	2	10	59	3.0

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.

LOCATION (revised).--Lat 43°28'25", long 74°13'25", Hamilton County, at gaging station 300 ft (91 m) upstream from bridge on Teachout Road in Griffin, 2.0 mi (3.2 km) downstream from Georgia Creek, 3 mi (5 km) upstream from mouth and 7 mi (11 km) upstream from Wells.

DRAINAGE AREA.--114 mi² (295 km²).

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 26...	1815	73	7.9	210	0	5.9	.8	1.8	.4	12
NOV. 21...	1430	231	7.4	50	0	5.0	1.0	1.4	.1	8
DEC. 19...	1500	184	8.0	20	0	5.9	.9	1.6	.2	7
JAN. 16...	1700	115	8.2	60	0	5.8	.9	1.7	.1	7
FEB. 19...	1530	117	8.1	60	0	5.3	.9	1.7	.1	9
MAR. 22...	1500	359	6.3	40	10	4.8	.7	1.1	.1	5
APR. 23...	1430	352	4.6	100	30	4.7	.7	1.1	.1	6
MAY 22...	1400	806	5.2	80	40	3.1	.6	1.0	.1	4
JUNE 19...	1130	60	5.3	210	10	5.5	1.0	2.2	.5	12
JULY 23...	1430	20	6.0	230	0	6.4	1.1	2.6	.3	16
AUG. 23...	1400	11	7.0	200	20	5.5	1.2	2.5	.4	17
SEP. 20...	1230	88	7.4	230	10	5.5	1.4	2.4	.2	11

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT. 26...	0	10	11	1.6	.0	.12	.00	.26	.00	.00
NOV. 21...	0	7	9.0	2.3	.0	.40	.00	.19	.00	.00
DEC. 19...	0	6	11	1.9	.0	.35	.00	.22	.00	.00
JAN. 16...	0	6	10	1.7	.0	.45	.00	.13	.00	.00
FEB. 19...	0	7	10	1.5	.0	.55	.01	.17	.00	.00
MAR. 22...	0	4	8.0	1.0	.0	.60	.00	.12	.00	.00
APR. 23...	0	5	7.7	.9	.1	.34	.01	.24	.00	.00
MAY 22...	0	3	8.4	1.3	.3	.29	.00	.10	.01	.01
JUNE 19...	0	10	7.9	3.1	.1	.14	.01	.09	.00	.00
JULY 23...	0	13	8.4	3.1	.1	.10	.00	.18	.01	.00
AUG. 23...	0	14	7.0	2.9	.0	.04	.00	.18	.00	.00
SEP. 20...	0	9	12	1.5	.3	.20	.00	.18	.01	.00

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01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.										
26...	36	0	0	48	31	18	8	49	7.3	10.0
NOV.										
21...	32	8	1	39	25	17	10	41	6.6	3.0
DEC.										
19...	35	2	0	38	26	18	12	42	6.4	.0
JAN.										
16...	34	2	2	40	26	18	12	46	6.6	.0
FEB.										
19...	35	0	0	42	31	17	10	46	7.0	.0
MAR.										
22...	26	0	0	31	15	13	9	36	6.3	1.0
APR.										
23...	25	5	2	36	22	15	10	36	6.7	13.5
MAY										
22...	23	7	3	35	24	10	7	33	6.6	10.0
JUNE										
19...	32	0	0	42	26	18	8	47	7.3	15.0
JULY										
23...	37	1	0	48	33	21	7	56	7.2	25.0
AUG.										
23...	35	0	0	45	27	19	5	56	7.4	21.0
SEP.										
20...	37	9	0	57	30	20	10	54	6.9	10.0

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
26...	8.5	75	10	B18	--	.0	--	--	--	--
NOV.										
21...	10.6	79	6	8	B1	.0	0	0	1	<.5
DEC.										
19...	11.0	89	4	B9	<1	.0	--	--	--	--
JAN.										
16...	12.0	85	4	B25	<1	.0	--	--	--	--
FEB.										
19...	12.4	93	5	B2	<1	.0	--	--	--	--
MAR.										
22...	10.8	81	7	B10	<1	.0	0	0	0	<.5
APR.										
23...	8.1	79	10	90	B1	.0	--	--	--	--
MAY										
22...	9.9	94	11	B170	B1	.0	--	--	--	--
JUNE										
19...	10.4	102	10	B40	B7	.0	--	--	--	--
JULY										
23...	8.6	103	10	630	25	.0	--	--	--	--
AUG.										
23...	8.8	98	9	1300	B9	.0	--	--	--	--
SEP.										
20...	11.8	105	17	1000	35	.0	0	0	0	<.5

B Results based on colony count outside the acceptable range (non-ideal colony count).

01325005 SACANDAGA RIVER AT HADLEY, N.Y.

LOCATION.--Lat 43°18'50", long 73°50'45", Saratoga County, at bridge on Corinth Road in Hadley, 0.1 mi (0.2 km) upstream from mouth and 1.3 mi (2.1 km) downstream from gaging station (01325000) near Hadley.

DRAINAGE AREA.--1,055 mi^2 (2,732 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV. 08...	1455	E2590	3.2	180	10	5.1	1.0	1.2	.3	12	0	10
MAY 01...	1230	E3040	5.0	50	50	3.9	.9	1.3	.2	9	0	7
JUNE 26...	1030	E2530	4.2	40	0	4.6	.9	1.6	.3	10	0	8
SEP. 17...	1515	E1990	3.7	250	80	4.9	1.2	1.5	.4	13	0	11

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
NOV. 08...	6.9	1.4	.0	.09	.00	.21	.00	.00	26	1	0	34
MAY 01...	7.0	2.5	.1	.39	.00	.17	.00	.00	27	0	0	36
JUNE 26...	7.4	1.2	.1	.23	.00	.00	.01	.00	26	1	0	35
SEP. 17...	6.4	1.3	.3	.11	.00	.14	.00	.00	27	0	0	38

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV. 08...	22	17	7	43	6.9	8	.0	--	--	--	--
MAY 01...	26	13	6	71	6.2	6	.0	--	--	--	--
JUNE 26...	23	15	7	40	6.5	7	.0	0	0	14	3.9
SEP. 17...	21	17	7	44	7.0	12	.0	0	0	3	1.3

E Estimated value.

01325420 HUDSON RIVER AT CORINTH, N.Y.

LOCATION.--Lat 43°14'55", long 73°49'57", Saratoga County, at bridge on River Street, in Corinth, 0.2 mi (0.3 km) downstream from Sturdevant Creek, and 2.0 mi (3.2 km) downstream from Barber Brook.

DRAINAGE AREA.--2.755 mi² (7,135 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
24...	1300	4.4	280	30	7.0	1.0	1.4	.2	16	0	13	7.5
NOV.												
20...	1145	6.2	100	0	5.9	.9	1.4	.4	11	0	9	8.5
JAN.												
03...	1315	5.8	120	30	5.5	.9	1.3	.2	13	0	11	8.9
FEB.												
06...	1115	6.0	100	30	6.3	1.0	1.7	.3	11	0	9	8.5
MAR.												
06...	1230	6.6	130	20	6.0	1.1	1.7	.3	14	0	11	8.5
APR.												
03...	1330	5.6	110	10	5.0	.8	1.7	.2	11	0	9	8.7
MAY												
08...	1310	5.8	150	0	8.6	1.0	1.6	.3	16	0	13	8.0
30...	1210	8.9	110	30	5.2	.9	1.3	.2	13	0	11	7.5
JUNE												
26...	1245	5.0	120	10	5.7	.9	1.6	.3	13	0	11	7.5
AUG.												
07...	1400	4.3	160	30	6.1	1.1	2.0	.4	16	0	13	7.0
21...	1400	4.2	50	40	5.6	1.1	1.6	.4	14	0	11	6.3
SEP.												
18...	1230	4.1	180	50	5.5	1.3	1.8	.1	15	0	12	6.2

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
24...	1.6	.0	.12	.00	.37	.00	.00	32	2	1	40
NOV.											
20...	1.6	.0	.19	.00	.29	.00	.00	32	4	1	41
JAN.											
03...	1.6	.0	.25	.00	.21	.00	.00	32	5	1	34
FEB.											
06...	2.0	.0	.40	.00	.30	.00	.00	33	4	2	46
MAR.											
06...	2.5	.0	.40	.00	.19	.01	.00	35	4	0	45
APR.											
03...	1.3	.2	.39	.00	.14	.00	.00	31	4	3	40
MAY											
08...	3.1	.2	.29	.01	.11	.00	.00	38	7	2	45
30...	1.6	.2	.30	.00	.11	.00	.00	34	3	2	38
JUNE											
26...	1.5	.1	.22	.00	.31	.00	.00	30	1	0	43
AUG.											
07...	2.2	.2	.40	.00	.23	.00	.00	33	5	2	40
21...	1.9	.2	.23	.00	.17	.00	.00	29	4	4	39
SEP.											
18...	1.7	.3	.16	.00	.15	.00	.00	29	1	0	36

01325420 HUDSON RIVER AT CORINTH, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
24...	25	22	8	47	7.1	6	.0	0	0	3	<.5
NOV.											
28...	29	18	9	45	6.9	11	.0	--	--	--	--
JAN.											
03...	26	17	6	48	6.9	10	.0	--	--	--	--
FEB.											
06...	33	20	11	47	6.7	7	.0	--	--	--	--
MAR.											
06...	35	20	8	51	6.9	3	.0	--	--	--	--
APR.											
03...	28	16	7	40	7.0	9	.0	--	--	--	--
MAY											
08...	28	26	12	50	6.8	9	.0	--	--	--	--
30...	25	17	6	43	6.9	6	.0	0	0	2	5.7
JUNE											
26...	28	18	7	45	6.9	11	.0	--	--	--	--
AUG.											
07...	25	20	7	52	6.8	9	.0	--	--	--	--
21...	19	19	7	47	6.7	8	.0	--	--	--	--
SEP.											
18...	24	19	7	50	6.8	9	.0	0	0	17	2.0

01326400 HUDSON RIVER AT SPIER FALLS, N.Y.

LOCATION.--Lat 43°14'00", long 73°45'20", Saratoga County, upstream from Niagara Mohawk Power Plant dam at Spier Falls, 0.5 mi (0.8 km) upstream from former gaging station (01326400) and 5.2 mi (8.4 km) downstream from Corinth.

DRAINAGE AREA.--2,778 mi² (7,195 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
24...	1330	4.6	300	40	6.5	1.1	1.6	.3	16	0	13	7.6
NOV.												
28...	1215	5.1	150	0	5.6	.9	1.5	.5	11	0	9	9.2
JAN.												
03...	1400	5.8	80	0	5.9	.9	1.3	.2	10	0	8	8.9
FEB.												
06...	1200	5.9	90	20	6.8	1.0	1.6	.3	10	0	8	9.4
MAR.												
06...	1315	6.5	160	20	7.0	1.2	1.9	.3	13	0	11	8.8
APR.												
03...	1415	5.5	170	0	4.9	.8	1.4	.2	10	0	8	9.5
MAY												
08...	1345	5.5	60	0	7.6	1.0	1.6	.4	13	0	11	8.5
30...	1235	5.0	50	10	6.3	.9	1.4	.2	12	0	10	7.5
JUNE												
26...	1215	5.2	140	20	5.8	.9	1.7	.2	13	0	11	7.7
AUG.												
07...	1445	5.2	110	30	7.0	1.2	2.2	.3	18	0	15	7.7
21...	1430	5.0	110	40	6.1	1.2	2.1	.5	18	0	15	7.7
SEP.												
18...	1310	4.9	240	40	6.1	1.4	2.3	.2	16	0	13	8.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
24...	1.7	.0	.12	.00	.30	.01	.00	32	3	1	42
NOV.											
28...	1.9	.0	.15	.00	.21	.00	.00	31	1	0	36
JAN.											
03...	2.0	.0	.25	.00	.27	.00	.00	31	6	1	32
FEB.											
06...	1.5	.0	.39	.00	.36	.00	.00	33	5	0	42
MAR.											
06...	2.2	.0	.39	.01	.22	.01	.00	36	4	0	46
APR.											
03...	1.3	.2	.36	.00	.66	.60	.00	31	5	2	40
MAY											
08...	1.9	.2	.34	.01	.22	.00	.00	35	5	1	44
30...	1.6	.2	.33	.00	.10	.01	.00	31	3	0	36
JUNE											
26...	1.7	.1	.19	.01	.12	.01	.00	31	2	1	46
AUG.											
07...	3.0	.1	.27	.00	.20	.01	.00	37	2	1	46
21...	2.3	.2	.34	.00	.18	.00	.00	36	4	0	47
SEP.											
18...	2.9	.3	.27	.00	.16	.02	.00	35	3	1	46

01326400 HUDSON RIVER AT SPIER FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
24...	25	21	8	50	6.8	9	.0	0	0	3	<.5
NOV.											
28...	23	18	9	45	7.2	11	.0	--	--	--	--
JAN.											
03...	28	18	10	46	6.8	0	.0	--	--	--	--
FEB.											
06...	28	21	13	47	6.6	6	.0	--	--	--	--
MAR.											
06...	36	22	12	53	6.9	4	.0	--	--	--	--
APR.											
03...	25	16	7	40	7.0	10	.0	--	--	--	--
MAY											
08...	28	23	12	48	6.6	8	.0	--	--	--	--
30...	27	19	10	46	6.8	8	.0	0	0	3	5.7
JUNE											
26...	28	18	8	46	6.7	15	.0	--	--	--	--
AUG.											
07...	34	22	8	58	6.8	9	.0	--	--	--	--
21...	33	20	5	57	6.5	10	.0	--	--	--	--
SEP.											
18...	32	21	8	57	6.7	8	.0	<1	0	16	2.0

01327600 HUDSON RIVER AT GLENS FALLS, N.Y.

LOCATION.--Lat 43°18'20", long 73°36'58", at Warren-Saratoga County line, at highway and quarry conveyor bridge, 0.1 mi (0.2 km) east of Glens Falls and 1.4 mi (2.3 km) downstream from bridge on U.S. Highway 9 and State Highway 32.

DRAINAGE AREA.--2,810 mi² (7,278 km²).

PERIOD OF RECORD.--Chemical analyses: April to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
24...	1155	4.5	200	30	7.6	1.2	4.3	.4	14	0
NOV.										
28...	1100	6.0	220	10	6.8	1.0	2.3	.5	13	0
JAN.										
03...	1215	5.8	220	0	5.8	1.0	1.9	.2	12	0
FEB.										
06...	1310	6.0	110	30	6.8	1.0	1.8	.3	10	0
MAR.										
06...	1200	6.4	180	30	6.4	1.3	2.5	.4	17	0
APR.										
03...	1200	5.6	370	40	5.5	.9	1.7	.2	12	0
MAY										
08...	1215	5.6	170	0	7.7	1.0	1.9	.4	15	0
30...	1130	4.9	160	10	5.6	1.0	1.6	.2	13	0
JUNE										
26...	1100	5.0	210	10	6.5	1.2	2.3	.4	16	0
AUG.										
07...	1315	4.2	160	30	7.8	1.5	3.2	.5	19	0
21...	1315	4.4	150	30	8.2	1.5	3.1	.5	18	0
SEP.										
18...	1130	4.1	160	40	8.8	1.8	3.3	.1	20	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.										
24...	11	15	6.5	.0	.13	.00	.84	.05	.00	49
NOV.										
28...	11	10	3.0	.0	.17	.00	.35	.02	.00	37
JAN.										
03...	10	10	3.0	.0	.20	.00	.46	.02	.00	35
FEB.										
06...	8	9.7	2.0	.0	.44	.00	.22	.00	.00	35
MAR.										
06...	14	10	4.0	.0	.42	.02	.26	.02	.00	41
APR.										
03...	10	9.5	2.0	.2	.35	.00	.21	.02	.00	33
MAY										
08...	12	9.7	4.6	.2	.34	.01	.20	.02	.00	40
30...	11	8.2	2.0	.3	.29	.00	.20	.01	.00	32
JUNE										
26...	13	7.7	2.4	.1	.24	.01	.06	.02	.00	35
AUG.										
07...	16	12	4.1	.2	.64	.00	.22	.03	.02	46
21...	15	11	4.5	.2	.47	.01	.21	.02	.01	44
SEP.										
18...	16	13	4.5	.2	.39	.00	.46	.01	.01	47

01327600 HUDSON RIVER AT GLENS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.									
24...	12	5	79	41	24	12	78	6.5	39
NOV.									
28...	2	0	53	36	21	10	55	7.0	11
JAN.									
03...	7	2	45	32	19	9	52	7.0	11
FEB.									
06...	11	6	42	28	21	13	53	6.8	11
MAR.									
06...	5	0	51	38	21	7	62	6.9	5
APR.									
03...	11	8	53	36	17	8	46	6.9	14
MAY									
08...	9	4	48	33	23	11	53	6.7	9
30...	3	2	45	31	18	7	48	6.8	7
JUNE									
26...	2	0	50	32	21	8	57	6.7	14
AUG.									
07...	8	5	57	41	26	10	75	6.6	1
21...	5	1	58	24	27	12	72	6.4	12
SEP.									
18...	3	1	69	45	29	13	83	6.5	18

DATE	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.									
24...	.0	10	5	0	0	40	16	30	<.5
NOV.									
28...	.0	--	--	--	--	--	--	--	--
JAN.									
03...	.0	10	--	--	--	0	--	0	--
FEB.									
06...	.0	0	3	0	0	0	3	0	<.5
MAR.									
06...	.0	0	2	0	0	0	5	0	<.5
APR.									
03...	.0	10	1	0	0	0	2	0	<.5
MAY									
08...	.0	0	0	0	0	10	2	40	<.5
30...	.0	0	3	0	0	0	2	0	8.5
JUNE									
26...	.0	0	--	0	0	0	12	30	5.0
AUG.									
07...	.0	0	6	0	0	20	4	60	7.6
21...	.0	--	--	--	--	--	--	--	--
SEP.									
18...	.0	0	1	0	0	10	5	20	3.6

01327700 HUDSON RIVER AT HUDSON FALLS, N.Y.

LOCATION.--Lat 43°18'00", long 73°35'30", Saratoga County, at Arkell and Smiths Pumphouse on west bank in Fenimore, across river from Hudson Falls and 1,500 ft (457 m) upstream from Fenimore Dam.

DRAINAGE AREA.--2,813 mi² (7,286 km²) (revised).

PERIOD OF RECORD.--Water temperatures: November 1957 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 25.0°C Aug. 10; Sept. 4, 5; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 27.0°C July 16-18, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen many days during January and February. No record Jan. 19, 20, June 22, July 21, 29, Aug. 26, 30, Sept. 3, 15, 16, 30.

COOPERATION.--Water temperature record furnished by Arkell and Smiths Division of the Chase Bag Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	6.5	0.5	0.0	0.0	4.5	3.5	8.0	12.0	19.5	23.0	24.0
2	14.5	6.5	0.5	0.0	0.0	0.5	4.5	9.0	13.0	20.0	23.0	24.0
3	14.5	6.5	0.5	0.0	0.0	0.0	4.5	9.0	13.5	20.5	23.0	---
4	14.5	6.0	0.5	0.0	0.0	0.0	3.5	9.0	14.0	20.0	23.0	25.0
5	14.0	5.5	1.0	0.0	0.0	0.0	2.0	9.0	14.0	21.0	23.0	25.0
6	14.0	5.5	1.0	0.0	0.0	0.0	2.0	9.0	14.5	21.0	23.0	24.5
7	14.0	5.5	0.0	0.0	0.0	0.0	3.0	9.5	15.5	21.5	24.0	24.0
8	14.0	5.5	0.0	0.0	0.0	0.0	3.0	9.5	16.0	21.5	24.5	23.0
9	13.0	4.5	0.0	0.0	0.0	0.0	3.5	10.0	17.0	23.0	24.5	21.5
10	13.0	4.5	0.0	0.0	0.0	0.0	3.0	10.0	18.0	23.0	25.0	21.0
11	12.0	4.0	0.0	0.0	0.0	0.0	2.0	10.0	19.0	23.0	24.5	20.5
12	12.0	3.5	0.0	0.0	0.0	0.0	2.0	10.0	19.5	22.0	24.5	20.0
13	11.5	4.0	0.0	0.0	0.0	0.0	3.0	10.5	19.5	22.0	24.5	19.5
14	10.5	3.5	0.0	0.0	0.0	0.0	3.0	10.5	20.0	21.5	24.5	19.5
15	10.0	3.0	0.0	0.0	0.0	0.0	3.0	10.0	19.5	21.0	24.0	---
16	9.5	3.0	0.0	0.0	0.0	0.5	4.5	10.0	18.5	21.0	24.0	---
17	9.5	2.0	0.0	0.0	0.0	0.5	5.5	10.0	18.0	21.0	24.0	17.0
18	9.5	1.0	0.0	0.5	0.0	0.5	7.0	10.0	17.0	21.5	24.0	18.0
19	9.0	1.0	0.0	---	0.0	0.5	8.0	9.5	17.0	21.5	24.0	18.0
20	8.5	1.0	0.0	---	0.0	0.5	8.5	8.5	18.0	21.5	24.0	18.0
21	10.0	1.0	0.0	0.0	0.0	0.5	8.5	8.0	18.0	---	24.0	17.0
22	8.0	1.0	0.0	0.0	0.0	0.5	9.0	9.0	---	22.0	23.5	16.0
23	8.0	1.0	0.0	0.0	0.0	0.5	10.0	10.0	18.5	22.0	23.5	16.0
24	9.0	0.5	0.0	0.0	0.0	0.5	10.5	10.0	19.0	22.0	24.0	15.5
25	8.5	0.5	0.0	0.0	0.0	1.0	10.0	10.0	19.5	22.0	23.0	15.5
26	8.0	0.5	0.0	0.0	0.0	1.5	9.5	8.5	19.5	22.0	---	15.5
27	8.0	1.0	0.0	0.0	0.0	2.0	9.0	10.5	20.0	22.0	23.0	15.5
28	8.5	1.0	0.0	0.0	0.5	2.0	8.0	10.5	20.0	22.0	22.0	15.5
29	9.5	0.5	0.0	0.0	---	3.0	7.0	11.0	20.0	---	23.5	15.5
30	7.0	0.5	0.0	0.0	---	3.0	7.0	11.0	20.0	22.0	---	---
31	7.0	---	0.0	0.0	---	3.0	---	11.0	---	23.0	24.0	---
AVERAGE	10.5	3.0	0.0	0.0	0.0	1.0	5.5	9.5	17.5	21.5	23.5	19.5

01327750 HUDSON RIVER AT FORT EDWARD, N.Y.

LOCATION.--Lat 43°16'10", long 73°35'47", Washington County, at power plant intake in Fort Edward and 0.4 mi (0.6 km) upstream from bridge on State Highway 197.

DRAINAGE AREA.--2,817 mi^3 (7,296 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
11...	1320	4.7	700	0	7.1	1.3	2.7	.5	17	0	14	13
24...	1105	4.6	430	110	8.0	1.4	5.1	.4	16	0	13	17
NOV.												
08...	1310	6.2	180	0	6.8	1.2	3.0	.4	14	0	11	11
28...	1005	6.0	240	10	6.3	1.1	2.4	.5	16	0	13	10
DEC.												
12...	1420	5.0	200	0	6.1	1.1	2.5	.2	12	0	10	12
JAN.												
03...	1130	5.6	250	0	6.8	1.0	2.2	.2	12	0	10	10
16...	1400	5.8	70	20	7.5	1.2	2.7	.3	15	0	12	11
FEB.												
06...	1455	6.0	110	50	6.8	1.1	2.2	.3	12	0	10	10
21...	0930	6.4	120	10	7.2	1.2	2.7	.3	14	0	11	12
MAR.												
06...	1115	6.4	70	20	7.1	1.4	2.9	.4	17	0	14	13
21...	1015	5.7	190	230	6.3	1.0	2.1	.4	12	0	10	11
APR.												
03...	1100	5.6	340	380	7.5	1.0	2.0	.3	13	0	11	11
MAY												
08...	1115	5.3	210	0	7.7	1.2	2.9	.4	14	0	11	12
30...	1040	4.9	240	30	6.1	1.0	2.2	.2	14	0	11	9.4
JUNE												
26...	1025	4.9	290	20	7.0	1.2	3.2	.3	15	0	12	10
AUG.												
07...	1240	4.3	640	80	8.3	1.9	5.4	.6	22	0	18	17
21...	1215	4.6	610	0	9.5	2.1	5.4	.6	21	0	17	18
SEP.												
18...	1100	4.4	550	60	9.6	2.2	6.7	.6	21	0	17	18

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
11...	2.8	.0	.19	.00	.98	--	--	42	--	--	--
24...	5.1	.0	.58	.01	1.1	.04	.00	54	14	7	87
NOV.											
08...	3.3	.0	.29	.00	.72	.03	.01	40	6	3	56
28...	2.5	.0	.22	.00	.40	.02	.00	38	8	3	55
DEC.											
12...	2.2	.0	.30	.00	.24	.00	.00	37	5	0	44
JAN.											
03...	2.5	.0	.28	.00	.40	.01	.00	36	12	6	46
16...	5.0	.0	.36	.01	.27	.00	.00	43	11	7	44
FEB.											
06...	1.9	.0	.44	.00	.21	.01	.00	36	3	0	48
21...	2.1	.0	.54	.01	.19	.01	.00	42	0	0	50
MAR.											
06...	3.5	.0	.52	.02	.91	.02	.00	46	5	0	77
21...	2.6	.0	.65	.05	1.5	.02	.00	38	5	1	53
APR.											
03...	2.0	.0	.39	.01	.70	.02	.00	38	10	7	59
MAY											
08...	4.1	.1	.52	.01	.21	.01	.00	43	4	2	49
30...	2.0	.3	.34	.00	.14	.01	.00	35	3	2	46
JUNE											
26...	2.8	.1	.38	.01	.17	.01	.00	39	2	0	54
AUG.											
07...	4.9	.1	1.3	.00	.27	.04	.01	59	29	22	83
21...	5.0	.3	1.2	.01	.29	.02	.01	61	20	17	86
SEP.											
18...	5.9	.3	.91	.00	.36	.16	.02	62	6	5	94

CONTINUED NEXT PAGE

01327750 HUDSON RIVER AT FORT EDWARD, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.									
11...	--	--	--	--	23	9	67	6.8	--
24...	14	7	87	52	26	13	85	6.7	32
NOV.									
08...	6	3	56	36	22	10	64	6.7	15
28...	8	3	55	38	20	7	57	7.0	9
DEC.									
12...	5	0	44	30	20	10	56	6.3	7
JAN.									
03...	12	6	46	32	21	11	55	6.8	8
16...	11	7	44	34	24	11	60	7.3	7
FEB.									
06...	3	0	48	31	22	12	55	6.6	7
21...	0	0	50	35	23	11	62	7.0	8
MAR.									
06...	5	0	77	43	23	10	69	7.0	2
21...	5	1	53	34	20	10	57	6.9	9
APR.									
03...	10	7	59	38	23	12	52	7.0	13
MAY									
08...	4	2	49	34	24	13	52	6.5	11
30...	3	2	46	32	19	8	53	6.8	8
JUNE									
26...	2	0	54	36	22	10	57	6.6	13
AUG.									
07...	29	22	83	58	29	11	95	6.5	15
21...	20	17	86	62	32	15	108	6.6	17
SEP.									
18...	6	5	94	61	33	16	106	6.8	20

DATE	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.									
11...	--	6	5	20	10	0	15	0	<.5
24...	.0	10	10	10	0	0	6	0	<.5
NOV.									
08...	.0	--	--	--	--	--	--	--	--
28...	.0	--	--	--	--	--	--	--	--
DEC.									
12...	.0	--	--	--	--	--	--	--	--
JAN.									
03...	.0	10	--	--	--	0	--	0	--
16...	.0	--	--	--	--	--	--	--	--
FEB.									
06...	.0	0	5	0	0	0	8	0	<.5
21...	.0	0	--	--	--	0	--	0	--
MAR.									
06...	.0	0	1	0	0	40	47	90	<.5
21...	.0	--	--	--	--	--	--	--	--
APR.									
03...	.0	0	1	10	0	0	11	0	<.5
MAY									
08...	.0	0	0	0	0	0	8	20	<.5
30...	.0	0	3	0	0	0	12	0	34
JUNE									
26...	.0	0	2	0	--	0	14	0	--
AUG.									
07...	.0	0	7	10	0	20	17	110	6.4
21...	.0	--	--	--	--	--	--	--	--
SEP.									
18...	.0	0	3	0	0	10	13	50	1.6

01328770 HUDSON RIVER AT THOMSON, N.Y.

LOCATION.--Lat 43°07'36", long 73°35'16", Saratoga County, at bridge on State Highway 4, 0.6 mi (1.0 km) north of Thomson.

DRAINAGE AREA.--2,996 mi² (7,760 km²).

PERIOD OF RECORD.--Chemical analyses: December 1972 to September 1973.

CHEMICAL ANALYSES, DECEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
DEC. 12...	1320	5.1	150	30	8.0	1.5	3.3	.3	14	0	11	15
JAN. 16...	1310	5.8	100	10	8.5	1.7	3.2	.6	17	0	14	13
FEB. 21...	1025	6.4	160	30	7.6	1.4	4.1	.3	18	0	15	13
MAR. 21...	1105	5.5	220	10	7.0	1.1	2.3	.3	13	0	11	11
APR. 16...	1115	5.9	410	20	7.9	1.2	2.2	.4	16	0	13	8.0
MAY 14...	1055	5.5	90	0	5.9	1.5	2.5	.5	17	0	14	12
JUNE 11...	1200	5.1	260	30	7.5	1.2	2.8	.7	19	0	16	11
JULY 10...	1045	5.2	250	150	8.7	1.6	3.0	.5	21	0	17	9.2
AUG. 07...	1145	4.2	330	30	10	1.9	4.2	.6	24	0	20	14
SEP. 05...	1030	4.2	270	520	9.3	1.7	3.8	1.0	18	0	15	12

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
DEC. 12...	3.5	.0	.38	.00	.49	.02	.00	46	9	2	56
JAN. 16...	3.3	.0	.50	.01	.33	.00	.00	47	9	8	52
FEB. 21...	3.3	.2	.56	.01	.24	.01	.00	48	3	0	55
MAR. 21...	3.0	.1	.70	.03	.45	.01	.00	40	4	0	51
APR. 16...	2.5	.2	.34	.01	.22	.01	.00	38	6	4	50
MAY 14...	2.9	.2	.28	.01	.25	.01	.00	41	3	3	60
JUNE 11...	3.8	.3	.37	.01	.08	.01	.00	44	3	0	58
JULY 10...	4.8	.2	.16	.01	.49	.02	.00	45	6	5	65
AUG. 07...	5.2	.1	.89	.00	.20	.02	.01	56	6	2	68
SEP. 05...	3.6	.4	1.2	.00	.82	.02	.01	50	10	7	72

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
DEC. 12...	38	26	15	72	6.4	6	.0	--	--	--	--
JAN. 16...	38	28	14	69	7.0	8	.0	--	--	--	--
FEB. 21...	39	25	10	75	7.1	10	.0	--	--	--	--
MAR. 21...	31	22	11	58	6.7	10	.0	--	--	--	--
APR. 16...	34	25	12	60	6.9	8	.0	0	0	2	<.5
MAY 14...	41	21	7	66	6.5	9	.0	--	--	--	--
JUNE 11...	36	24	8	71	6.9	10	.0	--	--	--	--
JULY 10...	42	28	11	75	6.9	12	.0	10	0	15	7.0
AUG. 07...	44	33	13	91	6.7	30	.0	--	--	--	--
SEP. 05...	48	30	15	86	6.4	10	.0	--	--	--	--

01329640 BATTEN KILL AT MIDDLE FALLS, N.Y.

LOCATION.--Lat 43°05'55", long 73°31'32", Washington County, at Niagara Mohawk Power Plant in Middle Falls, 0.5 mi (0.8 km) downstream from Hartshorn Brook, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--434 mi² (1,124 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
24...	1020	3.5	240	20	31	7.8	4.4	1.1	114	0	94	12
NOV.												
28...	0910	4.6	320	10	19	4.2	2.5	1.0	58	0	48	13
JAN.												
17...	1415	4.6	180	0	28	6.7	3.8	.7	91	0	75	13
MAR.												
06...	1025	4.2	350	40	23	5.7	3.5	1.0	79	0	65	12
MAY												
30...	1200	3.7	300	40	25	5.7	3.2	.7	89	0	73	11
JULY												
23...	1400	1.6	120	0	31	8.7	4.4	.9	120	0	98	9.8
AUG.												
21...	1250	2.3	40	30	33	7.6	4.4	1.0	130	0	107	9.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
24...	6.4	.0	.46	.00	.43	.01	.00	125	3	1	133
NOV.											
28...	3.8	.0	.70	.00	.43	.02	.00	80	9	5	101
JAN.											
17...	6.8	.0	1.1	.01	.17	.01	.00	114	17	16	116
MAR.											
06...	6.5	.1	.95	.00	1.2	.03	.01	99	9	5	110
MAY											
30...	4.7	.1	.50	.00	.09	.01	.00	100	11	5	119
JULY											
23...	7.4	.2	.62	.00	.05	.01	.00	126	0	0	155
AUG.											
21...	7.0	.2	.58	.01	.00	.00	.00	131	1	1	140

01329640 BATTEN KILL AT MIDDLE FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 24...	107	110	16	222	7.9	3	.0	0	0	9	<.5
NOV. 28...	76	65	17	138	7.7	9	.0	--	--	--	--
JAN. 17...	98	98	23	201	7.9	1	.0	--	--	--	--
MAR. 06...	104	81	16	174	7.4	1	--	--	--	--	--
MAY 30...	91	86	13	176	7.7	4	.0	0	0	2	5.5
JULY 23...	112	110	15	234	7.9	4	.0	--	--	--	--
AUG. 21...	111	110	7	243	7.9	4	.0	0	10	3	2.0

01329995 GLOWEGEE CREEK NEAR WEST MILTON, N.Y.

LOCATION.--Lat 43°02'29", long 73°56'40", Saratoga County, specific conductance and temperature recorders 60 ft (18 m) upstream from S3G drainage ditch of the U.S. Atomic Energy Commission, 0.1 mi (0.2 km) downstream from a small tributary and 1.0 mi (1.6 km) northwest of West Milton.

DRAINAGE AREA.--21.5 mi² (55.7 km²).

PERIOD OF RECORD.--Chemical analyses: October 1964 to December 1966, July 1967 to June 1973 (discontinued).
Water temperatures: October to December 1966, July 1967 to June 1973 (discontinued).

EXTREMES.--1972-73:
Specific conductance: Maximum, 275 micromhos Nov. 26; minimum, 130 micromhos Mar. 8.
Water temperatures: Minimum, freezing point on many days during winter period.

Period of record:
Specific conductance (1964, 1965, 1966-73): Maximum, 340 micromhos Jan. 16, 1966 and Nov. 17-19, 1971; minimum, 83 micromhos Mar. 27, 1970.
Water temperatures: Maximum, 29.0°C July 16, 17, 1968; minimum, freezing point on many days during winter periods.

REMARKS.--Specific conductance records all reported to the nearest five micromhos. Specific conductance records for 1965 and 1966 water years published as auxiliary recorder 01330000 Glowegee Creek at West Milton. Specific conductance recorder stopped Dec. 30 to Jan. 5, range 190 to 220 micromhos; water temperature recorder stopped May 28-31, range 10.5°C to 16.5°C.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1972 TO JUNE 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	250	245	240	235	250	245	---	---	235	230	230	230
2	250	250	240	220	250	245	---	---	230	220	230	225
3	255	250	220	200	255	250	---	---	220	175	225	225
4	260	255	225	215	260	255	---	---	185	175	230	190
5	260	260	230	225	260	255	---	---	195	185	200	195
6	260	240	235	230	260	230	220	215	210	195	200	200
7	260	200	235	235	235	225	245	220	220	210	200	180
8	240	200	240	185	235	235	250	245	230	220	140	130
9	240	240	205	175	235	230	255	250	240	230	180	150
10	240	240	220	205	235	235	260	255	240	235	195	180
11	240	240	235	220	235	205	260	260	240	240	200	195
12	240	240	250	235	230	210	260	260	240	240	200	175
13	240	240	260	250	235	230	260	260	240	240	185	185
14	245	240	260	260	240	235	260	260	240	240	185	185
15	250	245	260	260	235	230	260	260	240	240	190	185
16	255	250	260	260	235	235	245	240	240	240	190	190
17	255	255	260	245	240	235	260	260	240	240	195	185
18	260	255	260	250	245	240	260	250	240	240	180	175
19	260	260	260	260	245	245	250	220	245	240	195	180
20	260	255	260	230	245	245	220	180	240	235	200	195
21	255	250	245	235	250	245	190	175	240	240	215	200
22	255	255	255	245	250	240	205	190	240	240	215	215
23	260	255	265	255	240	240	235	205	240	235	220	215
24	255	255	270	265	240	240	220	215	235	235	220	220
25	260	255	270	265	240	235	235	220	235	235	225	220
26	260	260	275	185	235	230	240	235	235	235	235	195
27	260	260	225	205	230	230	240	240	235	230	200	200
28	260	240	225	225	235	230	240	240	230	230	200	200
29	240	230	240	225	255	235	240	240	---	---	205	200
30	235	235	250	240	---	---	245	235	---	---	205	205
31	235	235	---	---	---	---	240	235	---	---	205	205

	APRIL		MAY		JUNE	
DAY	MAX	MIN	MAX	MIN	MAX	MIN
1	210	175	230	230	235	235
2	185	180	230	230	240	235
3	195	185	230	205	240	240
4	200	150	215	205	240	235
5	155	150	215	215	235	230
6	165	160	215	215	230	185
7	185	175	215	215	200	185
8	200	185	220	215	200	200
9	200	200	220	220	205	205
10	205	195	225	220	205	205
11	200	200	220	190	215	205
12	205	200	200	190	220	215
13	205	205	205	200	220	220
14	205	205	215	205	225	220
15	210	205	225	215	225	225
16	215	210	230	225	235	225
17	220	215	235	230	240	235
18	220	220	235	175	240	230
19	220	220	185	180	235	230
20	220	220	190	185	240	235
21	230	220	200	190	245	240
22	235	230	210	200	245	245
23	235	235	220	210	245	245
24	240	235	230	220	255	160
25	235	230	240	230	210	180
26	230	230	240	240	220	210
27	230	230	240	240	230	220
28	230	230	240	225	250	230
29	230	230	235	230	250	195
30	230	230	235	235	200	195
31	---	---	235	235	---	---

01329995 GLOWEGEE CREEK NEAR WEST MILTON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1972 TO JUNE 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	6.5	7.0	5.0	1.0	0.0	1.5	0.5	0.0	0.0	0.5	0.0
2	9.0	4.5	8.5	6.5	1.0	0.0	1.0	0.0	0.5	0.0	0.5	0.0
3	10.5	6.0	9.0	8.0	2.0	0.0	0.5	0.0	0.5	0.0	1.0	0.5
4	10.5	6.0	8.0	5.0	0.5	0.0	0.0	0.0	0.5	0.0	1.0	0.5
5	10.0	5.5	5.5	4.5	0.5	0.0	1.0	0.0	0.5	0.0	1.0	0.5
6	10.5	6.5	6.0	4.0	0.5	0.0	0.0	0.0	0.5	0.0	0.5	0.5
7	10.5	9.5	5.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
8	10.0	8.5	5.5	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
9	8.5	5.5	5.5	4.5	0.5	0.0	0.0	0.0	0.5	0.0	2.0	0.5
10	6.5	4.0	6.0	4.5	1.5	0.5	0.0	0.0	0.5	0.0	3.0	0.5
11	7.0	3.0	5.0	4.0	1.5	0.0	0.0	0.0	0.5	0.0	1.5	0.5
12	7.0	6.0	6.0	5.0	0.5	0.0	0.0	0.0	0.5	0.0	3.5	1.0
13	8.0	5.5	6.5	5.0	0.5	0.0	0.5	0.0	0.5	0.0	4.0	0.5
14	6.0	4.0	6.0	1.5	0.5	0.0	0.5	0.0	0.5	0.0	2.0	0.5
15	6.5	4.5	2.0	1.0	0.0	0.0	0.5	0.0	0.5	0.0	2.0	0.5
16	5.0	3.5	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	4.5	0.0
17	6.5	4.5	0.5	0.0	0.0	0.0	0.5	0.0	0.5	0.0	4.0	3.0
18	5.0	2.0	1.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	3.5	0.5
19	4.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	2.0	0.0
20	3.5	0.0	2.0	0.5	0.0	0.0	0.0	0.0	1.0	0.5	3.0	0.5
21	3.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	3.5	0.0
22	5.0	3.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	2.0	0.5
23	8.0	5.0	0.0	0.0	1.0	0.0	0.5	0.0	0.0	0.0	5.5	0.0
24	10.0	8.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	6.5	0.0
25	9.0	6.5	3.0	1.5	1.5	1.0	0.0	0.0	0.0	0.0	6.5	1.5
26	8.5	5.5	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	5.5	4.0
27	8.0	4.0	3.0	1.5	0.5	0.0	0.5	0.0	0.5	0.0	6.5	2.0
28	9.0	5.0	2.0	1.5	0.5	0.0	0.0	0.0	0.5	0.0	7.0	0.5
29	10.0	9.0	1.5	0.0	0.0	0.0	0.0	0.0	---	---	7.0	2.0
30	9.5	7.0	1.0	0.0	0.5	0.0	0.5	0.0	---	---	5.5	2.0
31	7.0	5.5	---	---	0.5	0.5	0.0	0.0	---	---	8.5	5.5

	APRIL		MAY		JUNE	
DAY	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.0	15.0	8.0	16.0	14.5
2	6.5	5.5	15.0	10.5	17.0	13.0
3	5.5	5.0	15.0	11.5	16.5	9.5
4	5.5	2.0	11.5	9.0	16.0	13.0
5	5.0	2.0	10.0	8.0	19.0	14.0
6	5.5	2.0	13.0	6.5	19.5	15.5
7	9.0	3.0	16.0	6.5	20.0	16.5
8	7.0	4.5	10.5	8.0	21.0	15.0
9	8.5	2.0	10.5	9.0	20.5	15.5
10	6.0	3.0	16.0	10.0	21.0	15.0
11	5.0	2.0	15.5	13.0	24.0	16.0
12	5.5	1.5	14.0	11.0	22.0	18.5
13	7.0	0.5	13.5	9.5	20.0	17.0
14	9.5	1.0	12.0	9.0	20.5	15.5
15	10.5	2.0	9.5	8.0	19.5	14.0
16	13.5	4.0	13.5	8.0	17.0	13.5
17	14.0	8.5	13.5	8.0	19.5	13.5
18	15.5	9.0	9.0	6.0	16.5	13.0
19	15.5	9.0	9.0	6.0	19.0	14.0
20	16.0	8.0	8.5	6.0	21.5	15.0
21	15.5	10.0	10.0	8.5	20.5	18.0
22	19.0	10.5	13.5	8.5	20.5	18.5
23	16.0	12.0	14.5	9.0	22.0	17.0
24	15.0	10.5	16.0	11.0	21.0	13.0
25	15.5	8.5	15.5	12.0	20.5	16.0
26	10.5	9.5	13.5	11.0	22.0	18.0
27	9.5	8.5	14.5	10.5	21.5	18.5
28	11.0	8.5	---	---	21.5	18.5
29	8.5	7.0	---	---	19.0	18.0
30	14.5	5.5	---	---	19.5	17.0
31	---	---	---	---	---	---

01330000 GLOWEGEE CREEK AT WEST MILTON, N.Y.

LOCATION.--Lat 43°01'50", long 73°55'40", Saratoga County, specific conductance and temperature recorders at former gaging station at upstream side of highway bridge, 0.5 mi (0.8 km) south of West Milton, 1.5 mi (2.4 km) upstream from mouth, and 4 mi (6 km) northwest of Ballston Spa.

DRAINAGE AREA.--26.0 mi^2 (67.3 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1953 to September 1956, October 1964 to June 1973 (discontinued).
Water temperatures: March 1953 to June 1973 (discontinued).

EXTREMES.--1972-73:
Specific conductance: Maximum, 285 micromhos Oct. 4, Feb. 2; minimum, 150 micromhos Apr. 4, 5, June 7.
Water temperatures: Minimum, freezing point on many days during winter period.

Period of record:
Specific conductance (1964-73): Maximum, 480 micromhos Aug. 31, Sept. 4, 1969; minimum, 125 micromhos Mar. 25, 1968.
Water temperatures: Maximum, 28.0°C July 24, 1961, July 3, 1966, July 16, 1968; minimum, freezing point on many days during winter periods.

REMARKS.--Specific conductance records are reported to the nearest five micromhos. Specific conductance recorder stopped Nov. 24-Dec. 1, range 180 to 260 micromhos. No water temperature record June 16, 17.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1972 TO JUNE 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	270	265	250	250	---	---	200	175	250	250	265	260
2	270	270	260	220	250	245	210	200	285	250	260	255
3	280	270	230	205	265	250	220	195	270	215	255	250
4	285	275	240	230	265	260	220	220	225	220	250	240
5	280	280	245	225	265	260	225	220	235	225	240	230
6	280	280	240	230	260	220	230	225	245	235	230	220
7	280	230	250	240	235	220	245	230	250	245	220	200
8	250	230	260	200	240	235	245	245	250	250	200	160
9	260	250	220	185	240	235	245	245	255	245	190	165
10	260	255	235	215	240	235	245	245	260	255	210	190
11	260	260	240	230	240	235	250	245	260	260	215	210
12	260	260	245	235	240	240	250	250	265	260	215	190
13	260	260	250	240	260	240	250	250	260	260	195	190
14	260	260	255	240	255	225	250	250	260	250	200	190
15	260	260	240	235	225	225	250	245	250	250	210	200
16	260	260	245	240	230	225	245	245	255	250	210	205
17	260	260	245	245	235	230	245	245	260	255	205	175
18	260	260	250	245	240	235	245	235	260	260	190	175
19	260	260	260	250	245	240	240	230	260	255	210	190
20	260	245	260	215	250	245	230	170	280	260	220	210
21	255	250	230	215	255	250	215	190	270	260	225	220
22	260	255	245	230	250	250	225	215	260	260	225	225
23	270	260	260	245	250	245	235	215	260	260	230	225
24	275	265	---	---	245	240	230	220	260	255	230	225
25	270	265	---	---	240	235	240	230	255	255	225	225
26	280	270	---	---	235	235	240	240	255	255	225	190
27	280	280	---	---	235	225	240	240	260	255	200	185
28	280	275	---	---	230	220	240	240	260	260	200	200
29	275	250	---	---	245	220	245	240	---	---	205	200
30	250	240	---	---	240	230	250	245	---	---	210	205
31	255	245	---	---	230	175	250	250	---	---	210	210

	APRIL		MAY		JUNE	
DAY	MAX	MIN	MAX	MIN	MAX	MIN
1	210	180	235	230	235	235
2	180	170	235	230	240	235
3	185	175	240	230	245	240
4	200	150	230	220	245	240
5	175	150	230	230	240	240
6	190	175	235	230	240	155
7	205	190	235	235	200	150
8	210	205	240	235	210	200
9	210	210	240	220	220	210
10	210	190	230	220	225	220
11	200	190	230	190	230	225
12	200	200	220	210	240	230
13	200	200	225	220	240	235
14	205	200	230	225	235	235
15	210	205	235	230	245	235
16	210	210	235	225	245	245
17	220	210	235	235	250	245
18	230	220	235	155	250	250
19	220	220	190	170	250	250
20	230	220	205	190	260	250
21	230	230	200	190	265	260
22	230	230	210	195	265	265
23	230	230	220	210	270	265
24	230	230	225	220	270	165
25	240	230	235	225	245	175
26	230	230	230	230	255	245
27	240	230	235	230	260	255
28	230	220	235	225	260	250
29	235	220	230	225	250	170
30	235	235	235	230	195	170
31	---	---	235	235	---	---

01330000 GLOWEGEE CREEK AT WEST MILTON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1972 TO JUNE 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.5	8.0	7.0	1.0	0.0	1.5	1.0	0.0	0.0	0.5	0.0
2	10.5	10.0	8.0	7.0	1.5	0.0	1.0	1.0	0.0	0.0	1.0	0.5
3	10.0	9.5	9.0	8.0	0.5	0.0	1.0	0.0	0.5	0.0	0.5	0.5
4	9.5	9.0	8.5	6.5	0.5	0.0	1.0	0.0	0.5	0.0	1.0	0.0
5	9.0	8.5	6.5	5.0	0.5	0.0	1.5	0.5	0.5	0.0	1.0	0.5
6	8.5	8.0	5.5	5.0	1.0	0.0	2.0	0.0	1.0	0.0	1.0	1.0
7	8.5	8.0	5.0	4.0	1.0	0.0	1.5	0.0	0.5	0.5	1.0	0.0
8	8.0	7.0	5.5	5.0	1.5	0.0	1.0	0.0	0.5	0.0	0.5	0.0
9	7.0	7.0	6.5	5.0	1.0	0.0	0.5	0.0	1.5	0.0	1.0	0.0
10	7.0	6.5	7.0	6.5	1.0	1.0	0.5	0.5	1.5	0.0	1.0	0.5
11	7.0	7.0	7.0	5.5	1.0	0.5	0.5	0.5	1.0	0.0	1.0	0.5
12	7.0	6.5	6.5	5.5	1.0	0.0	0.5	0.0	1.0	0.0	1.5	0.5
13	6.5	6.5	6.5	6.0	1.0	0.0	0.5	0.0	1.0	0.5	2.0	1.0
14	6.5	6.5	6.5	5.0	1.0	0.0	0.0	0.0	1.0	0.5	1.5	1.0
15	7.0	6.5	6.0	4.5	1.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0
16	6.5	6.0	5.0	3.0	0.5	0.0	0.5	0.0	0.5	0.0	1.5	1.0
17	6.5	6.0	5.5	3.5	1.0	0.0	0.5	0.5	0.5	0.0	1.5	1.5
18	6.5	6.5	5.0	2.0	1.0	0.0	0.5	0.0	0.5	0.0	1.5	1.5
19	6.5	5.5	4.0	1.0	1.0	0.5	1.0	0.0	0.5	0.0	1.5	1.5
20	6.0	5.5	3.0	0.5	1.5	1.0	0.5	0.0	1.0	0.5	1.5	1.5
21	5.5	5.5	1.0	0.5	1.5	0.5	0.5	0.0	1.0	0.5	1.5	1.5
22	5.5	5.0	3.0	0.0	1.0	0.0	0.5	0.0	0.5	0.5	1.5	1.5
23	5.0	4.0	3.0	0.0	1.0	0.0	0.5	0.0	0.5	0.5	2.0	1.5
24	5.0	4.0	3.0	1.0	0.5	0.0	0.5	0.0	0.5	0.0	3.0	2.0
25	4.5	4.5	1.5	0.5	1.0	0.0	0.5	0.0	0.0	0.0	4.0	3.0
26	5.0	4.5	2.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0	5.0	4.0
27	5.5	5.0	2.0	1.0	1.0	0.5	0.0	0.0	0.5	0.0	6.0	4.5
28	5.5	5.0	2.0	0.5	0.5	0.0	0.0	0.0	0.5	0.0	6.0	5.0
29	6.0	5.5	1.5	1.0	1.5	0.0	0.5	0.0	---	---	6.0	5.0
30	6.5	5.5	1.0	0.0	1.5	0.5	0.5	0.0	---	---	6.0	5.5
31	7.0	6.0	---	---	1.5	0.0	0.0	0.0	---	---	6.5	6.0

	APRIL		MAY		JUNE	
DAY	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	5.5	12.0	10.5	14.5	14.0
2	7.0	5.5	14.0	11.5	16.0	14.5
3	5.5	5.5	16.5	12.0	16.5	15.5
4	6.0	5.0	14.5	14.0	17.0	16.5
5	5.0	5.0	14.0	13.5	19.5	17.0
6	5.5	5.0	14.0	13.5	24.0	19.5
7	6.0	5.5	13.5	13.0	20.5	19.5
8	5.5	5.0	13.5	13.5	21.0	20.0
9	5.5	5.0	13.5	13.0	20.5	19.5
10	5.5	5.0	16.5	12.0	20.0	19.0
11	5.0	5.0	16.5	13.0	20.0	18.5
12	5.5	5.0	14.0	13.0	19.5	19.0
13	6.0	5.5	13.5	13.0	19.0	17.0
14	6.5	6.0	13.5	13.0	17.0	16.0
15	8.0	6.5	14.0	13.5	16.0	15.0
16	9.5	8.0	14.0	13.0	---	---
17	11.5	9.5	13.5	13.0	---	---
18	13.5	11.0	13.5	11.5	14.5	14.0
19	15.0	13.0	12.0	11.5	14.5	14.0
20	15.0	13.0	12.0	11.5	15.0	14.0
21	14.5	13.0	13.0	12.0	16.0	14.5
22	15.5	13.0	13.0	13.0	16.5	16.0
23	14.5	13.5	13.0	13.0	16.5	16.0
24	13.5	11.5	14.0	13.0	18.0	16.0
25	11.5	11.0	14.0	14.0	16.0	15.5
26	11.0	10.0	14.0	14.0	16.0	15.5
27	10.0	9.0	14.5	14.0	16.5	16.0
28	10.5	10.0	14.5	14.0	18.0	16.5
29	10.5	10.0	14.0	13.5	20.5	18.0
30	11.0	10.0	14.5	13.5	20.5	17.0
31	---	---	15.0	14.0	---	---

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, N.Y.

LOCATION (revised).--Lat 43°02'18", long 73°54'35", Saratoga County, temperature recorder at gaging station on left bank 600 ft (183 m) downstream from Glowegee Creek, 1.0 mi (1.6 km) east of West Milton, and 3.5 mi (5.6 km) northwest of Ballston Spa.

DRAINAGE AREA.--90 mi² (233 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1953 to June 1955.
Water temperatures: October 1952 to June 1970; June 1971 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 24.5°C July 9, Aug. 9, Sept. 2-5; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, (1952-69,71-73) 28.5°C July 10, 1955; minimum, (1952-70, 72-73) freezing point on many days during winter periods.

REMARKS.--Recorder stopped Oct. 16-31, range in temperature 5.0°C to 11.0°C.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.5	5.5	5.5	0.5	0.5	1.0	0.5	0.0	0.0	0.0	0.0
2	12.0	10.0	6.5	5.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
3	13.0	10.5	7.0	6.5	1.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0
4	14.0	11.5	7.0	6.0	1.0	0.5	0.5	0.5	0.0	0.0	0.5	0.0
5	14.5	12.0	6.5	5.5	0.5	0.5	0.5	0.5	0.0	0.0	1.5	0.5
6	15.0	12.5	5.5	5.0	1.0	0.5	0.5	0.0	0.0	0.0	1.0	1.0
7	14.5	14.5	5.0	4.5	1.0	0.5	0.0	0.0	0.5	0.0	1.5	1.0
8	14.5	13.0	6.0	5.0	0.5	0.5	0.0	0.0	1.0	0.5	1.5	0.0
9	13.0	11.0	6.0	6.0	0.5	0.5	0.0	0.0	1.0	0.0	1.0	0.0
10	11.0	9.5	6.0	6.0	1.0	0.5	0.0	0.0	0.0	0.0	1.5	0.5
11	10.0	8.0	6.0	5.5	1.0	0.5	0.0	0.0	0.0	0.0	1.5	1.0
12	10.5	10.0	6.0	5.5	0.5	0.5	0.0	0.0	0.0	0.0	2.5	1.0
13	11.5	10.0	6.5	6.0	0.5	0.5	0.0	0.0	0.0	0.0	2.5	1.0
14	10.0	9.5	6.5	3.0	1.0	0.5	0.0	0.0	0.0	0.0	2.0	1.0
15	10.0	9.0	3.0	2.5	1.0	0.5	0.0	0.0	0.0	0.0	2.0	1.5
16	---	---	2.5	1.5	0.5	0.5	0.0	0.0	0.0	0.0	3.0	2.0
17	---	---	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	3.0	1.5
18	---	---	1.5	1.5	0.5	0.5	0.0	0.0	0.5	0.0	1.5	1.0
19	---	---	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	2.0	1.0
20	---	---	2.5	1.5	0.5	0.5	0.0	0.0	0.0	0.0	2.5	2.0
21	---	---	2.5	1.5	0.5	0.5	0.0	0.0	0.0	0.0	3.0	1.5
22	---	---	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	3.0	2.5
23	---	---	1.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0	4.0	1.5
24	---	---	1.5	1.0	1.5	0.5	0.0	0.0	0.0	0.0	4.5	2.0
25	---	---	2.5	1.5	2.0	1.5	0.5	0.0	0.0	0.0	5.0	3.5
26	---	---	2.0	1.5	2.0	2.0	0.5	0.0	0.0	0.0	5.0	5.0
27	---	---	1.5	1.5	2.0	1.5	0.5	0.5	0.0	0.0	5.0	3.5
28	---	---	1.5	1.5	1.5	1.0	0.5	0.5	0.0	0.0	4.5	3.0
29	---	---	1.5	1.5	1.0	0.5	0.5	0.0	---	---	5.0	3.5
30	---	---	1.5	0.5	0.5	0.5	0.0	0.0	---	---	4.5	3.5
31	---	---	---	---	0.5	0.5	0.0	0.0	---	---	6.0	4.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	6.0	13.0	9.0	15.5	14.0	20.0	18.0	23.0	20.5	24.0	22.5
2	6.0	5.0	13.5	11.0	17.0	14.0	21.0	19.0	22.0	21.0	24.5	22.5
3	5.0	4.5	14.0	12.5	16.0	12.5	21.5	19.5	21.5	20.0	24.5	22.5
4	4.5	4.0	12.5	10.0	15.5	13.5	21.0	19.5	23.5	19.5	24.5	23.0
5	4.0	3.0	10.0	9.0	17.0	14.5	21.5	19.0	24.0	19.5	24.5	23.0
6	5.0	3.5	11.0	8.0	18.5	16.0	21.0	18.0	23.5	19.0	24.0	21.0
7	6.5	4.5	13.5	8.5	20.0	17.5	22.0	17.5	23.5	20.0	21.0	18.5
8	6.5	5.0	11.5	9.5	20.5	16.5	23.0	19.0	24.0	21.0	18.5	16.0
9	5.5	3.5	10.0	9.5	19.5	17.0	24.5	20.0	24.5	21.0	18.0	15.0
10	5.5	4.0	13.0	9.5	21.0	16.5	22.5	20.5	23.5	21.5	17.0	14.0
11	4.5	3.5	13.5	12.0	22.5	17.5	22.5	19.5	24.0	23.5	16.0	13.5
12	4.5	2.5	13.5	12.5	21.5	19.5	20.0	17.0	23.5	21.5	16.0	14.5
13	5.5	3.0	12.5	11.5	20.0	18.5	18.5	16.0	23.0	21.0	16.0	13.5
14	6.5	3.5	12.0	11.0	20.5	17.0	20.5	17.5	22.5	20.5	16.0	14.5
15	8.5	4.5	11.0	10.0	18.5	15.5	19.0	17.5	21.5	20.0	15.5	14.5
16	10.0	6.0	12.5	9.5	17.0	14.0	20.5	16.0	22.0	19.5	15.0	14.0
17	11.5	9.0	13.0	10.5	18.0	14.5	21.0	17.0	22.5	19.5	15.0	13.0
18	12.5	10.0	12.0	9.0	16.0	14.0	22.0	17.0	22.5	20.0	15.5	14.0
19	13.5	10.5	10.0	9.0	17.0	14.0	21.5	17.5	22.5	20.5	14.5	13.0
20	13.5	10.0	10.0	9.5	19.5	15.5	21.0	19.0	22.5	20.0	13.5	12.5
21	13.5	10.5	10.5	9.5	19.0	17.5	20.0	19.0	22.0	19.5	12.5	10.5
22	15.0	11.5	12.5	10.5	18.5	17.5	21.5	17.0	22.0	20.0	11.5	10.0
23	15.0	13.0	13.5	11.0	20.0	17.0	22.5	17.5	20.5	18.0	14.0	10.5
24	13.0	11.0	14.5	12.5	20.0	16.0	23.0	18.0	20.5	18.0	14.0	13.5
25	13.0	10.0	15.0	13.5	19.0	16.0	22.0	18.5	21.0	18.0	14.5	13.0
26	12.0	10.0	13.5	12.5	20.5	17.5	21.0	20.0	21.5	19.0	14.5	13.0
27	10.0	8.5	14.0	11.5	21.0	19.0	21.5	19.5	22.5	20.5	15.0	13.0
28	9.5	8.5	13.0	12.0	20.5	19.0	23.5	19.5	23.0	22.0	16.0	14.5
29	9.0	7.5	14.0	12.0	19.5	18.0	23.0	21.0	23.5	22.0	15.0	13.0
30	11.0	7.0	16.0	13.5	18.5	18.0	23.5	19.0	24.0	22.0	14.0	12.0
31	---	---	16.0	14.5	---	---	23.5	20.0	24.0	22.5	---	---

01330770 KAYADEROSSERAS CREEK AT SARATOGA SPRINGS, N.Y.

LOCATION.--Lat 43°02'37", long 73°46'16", Saratoga County, at bridge on Nelson Avenue, 200 ft (61 m) south of Kaydeross Avenue in Saratoga Springs and 200 ft (61 m) upstream from Bear Swamp Outlet.

DRAINAGE AREA.--173 mi^3 (448 km^2).

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JAN. 17...	1100	8.4	110	10	29	7.9	8.8	.8	98	0	80	18
APR. 04...	1120	5.7	290	10	19	4.9	5.4	.7	56	0	46	15
MAY 01...	1345	5.3	160	10	25	7.0	7.8	.8	92	0	75	17
30...	0920	6.2	430	20	29	7.1	9.0	.7	103	0	84	14
JULY 23...	1130	5.9	260	30	32	8.6	12	1.5	120	0	98	14
AUG. 21...	1100	7.4	120	30	33	7.2	13	1.5	121	0	99	16

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
JAN. 17...	14	.0	.50	.02	.21	.04	.03	138	9	9	135
APR. 04...	8.0	.2	.30	.01	.22	.02	.00	88	8	6	110
MAY 01...	12	.2	.30	.07	.33	.04	.02	122	3	1	135
30...	13	.2	.17	.03	.25	.03	.00	131	7	5	161
JULY 23...	19	.2	.54	.00	.23	.05	.03	155	4	4	195
AUG. 21...	19	.3	.60	.00	.12	.12	.11	160	3	2	173

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN. 17...	117	110	25	238	7.5	1	.0	--	--	--	--
APR. 04...	81	68	22	154	7.0	10	.0	--	--	--	--
MAY 01...	109	91	16	215	7.3	7	.0	--	--	--	--
30...	123	100	17	230	7.7	17	.0	0	0	600	5.8
JULY 23...	147	120	17	276	7.7	3	.0	--	--	--	--
AUG. 21...	146	110	13	287	7.6	7	.0	0	10	13	5.8

01330885 FISH CREEK AT SARATOGA SPRINGS, N.Y.

LOCATION.--Lat 43°04'27", long 73°41'45", Saratoga County, at Staffords Bridge at Saratoga Springs corporate boundary and 2.2 mi (3.5 km) downstream from Saratoga Lake.

DRAINAGE AREA.--229 mi² (593 km²).

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JAN.												
17...	1135	6.6	0	0	30	7.1	10	1.1	90	0	74	20
APR.												
04...	1205	5.4	210	30	23	5.7	8.5	1.0	73	0	60	17
MAY												
01...	1440	4.2	180	10	28	5.7	10	1.2	88	0	72	17
30...	1010	3.3	300	50	25	6.0	8.5	.8	86	0	71	16
JULY												
23...	1245	4.4	140	20	26	6.2	9.3	1.1	92	0	75	15
AUG.												
21...	1200	5.0	--	30	26	5.3	9.0	1.2	93	0	76	14

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
JAN.											
17...	16	.2	.37	.01	.22	.01	.03	137	2	0	141
APR.											
04...	14	.3	.45	.05	.26	.02	.00	113	4	3	126
MAY											
01...	16	.1	.33	.02	.37	.02	.00	127	9	2	132
30...	13	.3	.12	.02	.28	.03	.00	116	12	8	148
JULY											
23...	15	.3	.24	.00	.14	.02	.01	124	1	0	146
AUG.											
21...	15	.2	.39	.00	.20	.02	.02	123	2	1	136

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN.											
17...	122	100	30	241	7.5	7	.0	--	--	--	--
APR.											
04...	97	81	21	197	7.2	6	.0	--	--	--	--
MAY											
01...	105	93	21	203	8.0	9	.0	--	--	--	--
30...	107	87	17	205	7.9	13	.0	0	0	3	5.8
JULY											
23...	114	90	15	220	7.6	12	.0	--	--	--	--
AUG.											
21...	108	87	10	222	8.1	12	.0	0	10	6	3.3

01330915 FISH CREEK AT SCHUYLERVILLE, N.Y.

LOCATION.--Lat 43°05'50", long 73°34'39", Saratoga County, 200 ft (61 m) upstream from mouth in Schuylerville and 0.3 mi (0.5 km) downstream from U.S. Highway 4.

DRAINAGE AREA.--252 mi^2 (653 km^2).

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JAN.												
17...	1300	6.6	40	0	30	7.0	10	1.1	93	0	76	20
APR.												
04...	1250	5.3	300	70	25	5.9	8.6	1.1	76	0	62	17
MAY												
01...	1520	3.9	150	0	23	5.8	8.8	1.0	87	0	71	16
30...	1100	3.9	300	30	24	6.1	8.1	.9	83	0	68	16
JULY												
23...	1330	4.5	370	40	28	6.5	9.5	1.2	94	0	77	15
AUG.												
21...	1230	5.4	230	90	27	5.8	9.0	1.2	94	0	77	14

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
JAN.											
17...	16	.0	.42	.05	.40	.05	.03	139	2	2	151
APR.											
04...	13	.2	.49	.01	.30	.03	.01	116	10	8	138
MAY											
01...	14	.1	.33	.01	.27	.03	.01	117	5	2	136
30...	12	.2	.16	.04	.21	.04	.00	113	10	8	144
JULY											
23...	15	.2	.36	.00	.15	.06	.03	128	10	9	154
AUG.											
21...	14	.3	.49	.00	.20	.07	.05	125	12	10	150

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN.											
17...	121	100	27	245	7.9	6	.0	--	--	--	--
APR.											
04...	116	87	24	206	7.3	6	.0	--	--	--	--
MAY											
01...	102	81	10	117	6.9	8	.0	--	--	--	--
30...	116	85	17	203	7.4	13	.0	0	0	4	6.5
JULY											
23...	124	97	20	226	7.6	7	.0	--	--	--	--
AUG.											
21...	119	91	14	220	7.4	11	.0	10	0	9	2.9

01331095 HUDSON RIVER AT STILLWATER, N.Y.

LOCATION.--Lat 42°56'16", long 73°39'04", Saratoga and Rensselaer Counties, at bridge on State Highway 67 in Stillwater and 0.9 mi (1.4 km) upstream from Hoosic River.

DRAINAGE AREA.--3,773 mi^2 (9,772 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 11...	1410	4.9	390	0	14	3.0	4.5	1.2	38	0	31	15
NOV. 08...	1215	5.2	170	0	12	2.6	4.0	.7	33	0	27	14
DEC. 12...	1230	5.1	120	10	12	2.6	3.0	.4	28	0	23	14
JAN. 16...	1225	5.8	80	10	11	2.3	3.1	.4	27	0	22	12
FEB. 21...	1100	6.2	130	40	10	2.1	3.9	.4	26	0	21	14
MAR. 21...	1150	5.2	360	30	9.6	1.8	2.6	.4	23	0	19	11
APR. 16...	1200	5.5	320	10	9.5	2.0	3.2	.5	27	0	22	10
MAY 14...	1140	5.0	200	0	12	2.5	3.5	.6	31	0	25	12
JUNE 11...	1300	4.8	190	40	10	1.8	3.3	.7	29	0	24	12
JULY 10...	1030	4.9	290	50	13	2.7	3.0	.5	39	0	32	8.8
AUG. 07...	1245	4.2	140	40	12	2.8	4.7	.8	38	0	31	13
SEP. 05...	1100	3.9	30	30	11	2.4	5.0	.7	30	0	25	13

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT. 11...	6.0	.0	.25	.01	.49	.03	.00	69	8	2	90
NOV. 08...	5.0	.0	.29	.00	.34	.02	.00	61	5	4	76
DEC. 12...	4.5	.0	.39	.00	.26	.02	.00	57	8	4	70
JAN. 16...	4.8	.0	.39	.01	.19	.01	.01	55	4	3	60
FEB. 21...	3.3	.1	.58	.01	.26	.01	.00	56	0	0	58
MAR. 21...	3.3	.0	.61	.00	.41	.01	.00	48	6	2	63
APR. 16...	3.5	.2	.42	.01	.14	.01	.00	50	12	10	71
MAY 14...	5.0	.2	.40	.05	1.2	.01	.01	58	3	3	73
JUNE 11...	4.0	.2	.38	.01	.29	.01	.00	53	1	0	65
JULY 10...	4.7	.2	.23	.00	.38	.03	.01	58	7	6	71
AUG. 07...	5.2	.1	1.1	.00	.14	.01	.01	67	3	2	80
SEP. 05...	4.0	.3	.90	.00	.07	.01	.01	59	4	2	69

01331095 HUDSON RIVER AT STILLWATER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNI- TION (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 11...	68	47	16	114	7.3	18	.0	--	--	--	--
NOV. 08...	53	41	14	105	7.0	14	.0	--	--	--	--
DEC. 12...	58	41	18	98	6.9	6	.0	--	--	--	--
JAN. 16...	49	37	15	90	7.4	7	.0	--	--	--	--
FEB. 21...	46	34	12	90	7.3	8	.0	--	--	--	--
MAR. 21...	48	31	13	76	7.1	8	.0	--	--	--	--
APR. 16...	53	32	10	85	7.1	7	.0	0	0	5	<.5
MAY 14...	51	40	15	95	6.7	8	.0	--	--	--	--
JUNE 11...	44	32	9	84	7.0	10	.0	--	--	--	--
JULY 10...	47	44	12	100	7.4	10	.0	0	0	6	3.0
AUG. 07...	55	41	10	111	6.9	14	.0	--	--	--	--
SEP. 05...	48	37	13	103	6.8	8	.0	--	--	--	--

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.

LOCATION.--Lat 42°48'33", long 73°17'12", Rensselaer County, N.Y.-Bennington County-Vt., at bridge on New York-Vermont State Highway 346, at state line, and 1.3 mi (2.1 km) northwest of North Pownal, Vt.

DRAINAGE AREA.--302 mi² (782 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
24...	0915	--	4.1	340	90	48	9.7	24	2.2	146	0
NOV.											
08...	1115	340	4.0	220	50	25	6.5	12	1.5	95	0
JAN.											
03...	0945	1120	3.7	210	0	18	4.3	5.5	.7	58	0
FEB.											
13...	1530	620	4.0	390	30	27	6.8	10	1.0	88	0
MAR.											
06...	0915	--	4.0	750	430	20	5.1	8.6	1.2	71	0
APR.											
03...	0930	--	3.3	480	40	15	3.7	4.9	.7	50	0
MAY											
08...	0930	430	1.2	150	10	25	6.7	10	1.2	88	0
30...	0900	837	3.5	320	20	28	5.0	6.1	.8	72	0
JUNE											
26...	0945	510	3.6	260	50	25	6.6	10	1.2	92	0
30...	1140	E16000	3.3	--	--	19	3.9	2.3	1.8	61	0
AUG.											
07...	1050	--	4.6	350	140	34	9.3	20	1.7	129	0
21...	1030	--	3.7	350	400	37	10	23	2.2	131	0
SEP.											
18...	0930	--	5.1	590	180	38	11	26	1.1	167	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.											
24...	120	24	27	.7	1.5	.00	.45	.17	.12	211	7
NOV.											
08...	78	18	12	.2	.67	.05	.61	.29	--	129	10
JAN.											
03...	48	13	7.5	.0	.49	.00	.22	.04	.03	84	11
FEB.											
13...	72	21	12	.1	1.0	.02	.25	.11	--	130	4
MAR.											
06...	58	15	13	.0	1.0	.00	--	.13	.01	107	28
APR.											
03...	41	12	6.0	.2	.56	.01	1.1	.05	.02	73	11
MAY											
08...	72	15	20	.2	.60	.05	.34	.13	.10	126	4
30...	59	13	8.0	.1	.41	.03	.11	.07	.02	94	10
JUNE											
26...	75	15	14	.1	.64	.21	.14	.20	.14	124	6
30...	50	16	3.0	.1	.58	.01	--	--	--	82	--
AUG.											
07...	106	20	24	.2	1.4	.00	.33	.22	.17	184	13
21...	107	28	26	.1	2.0	.00	.45	.14	.08	204	6
SEP.											
18...	137	21	21	.4	1.7	.00	.24	.34	.20	214	12

E Estimated value.

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.										
24...	4	214	184	140	20	361	7.8	--	--	--
NOV.										
08...	8	140	112	89	11	233	7.7	11.0	9.8	90
JAN.										
03...	--	95	81	43	15	155	7.3	--	--	--
FEB.										
13...	2	141	117	95	23	228	7.6	.0	13.2	93
MAR.										
06...	19	131	113	71	13	189	7.4	--	--	--
APR.										
03...	9	92	77	53	12	126	7.7	--	--	--
MAY										
08...	1	129	101	90	18	214	7.2	--	--	--
30...	2	111	86	71	11	166	7.4	--	--	--
JUNE										
26...	3	139	111	90	14	220	7.4	--	--	--
30...	--	--	--	64	13	118	7.2	--	--	--
AUG.										
07...	9	203	172	120	17	326	7.4	--	--	--
21...	5	225	185	130	26	360	7.3	--	--	--
SEP.										
18...	9	240	211	140	3	384	7.5	--	--	--

DATE	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
24...	8	--	--	--	--	.0	0	0	5	<.5
NOV.										
08...	7	55000	12000	1.0	20	.0	0	30	5	<.5
JAN.										
03...	0	--	--	--	--	.0	--	--	--	--
FEB.										
13...	4	2400	81000	3.0	17	.0	0	80	11	<.5
MAR.										
06...	6	--	--	--	--	.0	--	--	--	--
APR.										
03...	7	--	--	--	--	.0	--	--	--	--
MAY										
08...	6	--	--	--	--	.0	--	--	--	--
30...	7	--	--	--	--	.0	0	0	20	6.2
JUNE										
26...	7	--	--	--	--	.0	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
AUG.										
07...	9	--	--	--	--	.0	--	--	--	--
21...	6	--	--	--	--	.0	--	--	--	--
SEP.										
18...	7	--	--	--	--	.0	<1	10	3	3.2

B Results based on colony count outside the acceptable range (non-ideal colony count).

01335400 HOOSIC RIVER NEAR STILLWATER, N.Y.

LOCATION.--Lat 42°55'56", long 73°39'07", Rensselaer County, off north bank 0.5 mi (0.8 km) upstream from mouth, 0.4 mi (0.6 km) southeast of Stillwater and 2.8 mi (4.5 km) downstream from Tomhannock Creek.

PERIOD OF RECORD.--Chemical analyses: February to September 1973.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB. 06...	1605	3.9	650	80	18	4.0	4.4	.8	53	0	43	14
APR. 04...	1330	3.6	260	30	17	4.0	4.2	.8	51	0	42	13
MAY 01...	1600	2.3	390	60	21	5.6	6.8	.9	76	0	62	15
30...	1320	3.1	340	40	23	5.6	5.5	1.1	79	0	65	14
JULY 23...	1445	.2	340	50	31	8.4	9.2	1.6	116	0	95	15
AUG. 21...	1400	2.4	40	40	34	9.0	12	2.1	132	0	108	17

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
FEB. 06...	5.7	.2	.74	.01	.76	.03	.01	81	11	--	100
APR. 04...	6.0	.3	.70	.05	.23	.02	.02	77	11	7	87
MAY 01...	8.5	.1	.57	.00	.01	.04	.03	100	8	5	118
30...	7.4	.2	.48	.01	.07	.03	.00	101	22	10	129
JULY 23...	13	.3	.80	.00	.21	.06	.02	139	8	7	182
AUG. 21...	16	.3	.72	.00	.20	.05	.03	161	4	2	173

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
FEB. 06...	81	61	18	143	7.2	4	.0	--	--	--	--
APR. 04...	71	59	17	136	7.3	5	.0	--	--	--	--
MAY 01...	100	76	13	181	7.3	5	.0	--	--	--	--
30...	97	80	16	177	7.7	7	.0	0	0	4	3.4
JULY 23...	134	110	17	250	7.5	3	.0	--	--	--	--
AUG. 21...	140	120	14	292	7.6	8	.0	10	10	7	3.4

01335770 HUDSON RIVER AT WATERFORD, N.Y.

LOCATION.—Lat 42°47'17", long 73°40'34", Saratoga County, at Waterford water supply intake on west shore and 0.3 mi (0.5 km) upstream from bridge on U.S. Highway 4 in Waterford.

DRAINAGE AREA.—4,620 mi² (11,966 km²).

PERIOD OF RECORD.—Chemical analyses: April 1969 to September 1973.

COOPERATION.—Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT.												
11...	1450	E5650	4.8	790	30	18	3.9	5.1	1.5	48	0	39
NOV.												
08...	1130	E11300	5.4	370	10	16	3.3	4.2	.9	41	0	34
DEC.												
12...	1145	E18500	4.9	360	10	15	3.0	3.3	2.5	40	0	33
JAN.												
16...	1140	E9540	5.7	140	30	14	2.8	3.9	.5	34	0	28
FEB.												
21...	1145	E10200	6.0	190	20	13	2.6	3.9	.4	33	0	27
MAR.												
21...	1230	E22000	5.0	490	30	10	2.0	3.0	.5	25	0	21
APR.												
16...	1300	E11200	5.2	270	20	13	2.5	3.8	.5	33	0	27
MAY												
14...	1225	E11000	4.8	520	30	14	2.8	3.7	.7	35	0	29
JUNE												
11...	1345	E5800	4.4	370	40	15	2.6	4.4	.7	36	0	30
JULY												
10...	1100	E8140	4.9	320	50	16	3.4	4.1	.6	48	0	39
AUG.												
07...	1315	E5430	4.0	310	50	21	3.4	5.6	.8	43	0	35
SEP.												
05...	1150	E2860	2.8	280	80	18	4.9	8.7	1.0	50	0	41

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT.											
11...	17	8.4	.0	.50	.03	.65	.06	.01	86	21	110
NOV.											
08...	15	8.5	.0	.34	.01	.30	.03	.01	75	13	96
DEC.											
12...	15	6.2	.0	.43	.00	.45	.02	.00	72	9	87
JAN.											
16...	13	6.2	.0	.48	.01	.25	.01	.01	65	7	77
FEB.											
21...	13	5.1	.0	.52	.01	.13	.01	.00	63	0	66
MAR.											
21...	12	4.5	.0	.64	.00	.32	.02	.00	52	10	83
APR.											
16...	12	5.7	.2	.47	.05	.44	.01	.00	61	8	75
MAY											
14...	12	8.4	.2	.36	.00	.16	.03	.00	66	16	100
JUNE											
11...	13	8.7	.2	.47	.02	.63	.02	.00	69	2	95
JULY											
10...	9.7	7.5	.3	.20	.09	.19	.03	.01	71	10	93
AUG.											
07...	15	18	.1	1.5	.00	.37	.03	.01	96	10	126
SEP.											
05...	17	14	.3	.68	.00	.11	.03	.03	95	7	115

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01335770 HUDSON RIVER AT WATERFORD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
11...	76	61	22	142	7.4	19	.0	--	--	--	--
NOV.											
08...	67	54	20	129	7.5	14	.0	--	--	--	--
DEC.											
12...	64	50	17	112	7.0	6	.0	--	--	--	--
JAN.											
16...	47	48	18	108	7.2	7	.0	--	--	--	--
FEB.											
21...	53	43	16	104	7.0	8	.0	--	--	--	--
MAR.											
21...	59	33	13	87	7.2	9	.0	--	--	--	--
APR.											
16...	56	43	16	103	7.2	6	.0	0	0	4	<.5
MAY											
14...	70	46	18	111	6.7	9	.0	10	10	8	<.5
JUNE											
11...	58	48	19	118	6.8	10	.0	--	--	--	--
JULY											
10...	65	54	15	127	7.4	12	.0	10	0	4	3.5
AUG.											
07...	85	66	31	173	7.1	13	.0	--	--	--	--
SEP.											
05...	84	65	24	170	7.0	10	.0	--	--	--	--

01335771 HUDSON RIVER AT MONITOR AT WATERFORD, N.Y.

LOCATION.--Lat 42°47'17", long 73°40'33", Saratoga County, at New York State Water Quality Surveillance monitor on west bank, 300 ft (91 m) south of bridge on U.S. Highway 4 in Waterford.

DRAINAGE AREA.--4,620 mi² (11,966 km²).

PERIOD OF RECORD.--Chemical analyses: September 1971 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT.											
11...	1500	E5650	4.9	1200	70	20	4.5	6.1	1.8	54	0
NOV.											
08...	1100	E11300	5.4	220	30	20	3.7	4.8	1.1	44	0
DEC.											
12...	1100	E18500	5.1	280	40	15	3.1	3.8	.7	40	0
JAN.											
16...	--	E9540	6.0	220	40	16	3.1	4.3	.6	38	0
FEB.											
21...	1210	E10200	6.2	240	50	16	2.8	4.6	.5	34	0
MAR.											
21...	1305	E22000	5.2	430	40	18	2.2	3.2	.6	28	0
APR.											
16...	1330	E11200	5.3	400	100	20	2.8	4.6	1.4	34	0
MAY											
14...	1300	E11000	4.9	430	30	21	3.0	4.3	.8	35	0
JUNE											
11...	1415	E5800	4.4	370	40	19	2.9	5.2	.7	37	0
JULY											
10...	1120	E8140	5.2	660	50	18	3.6	4.2	.6	47	0
AUG.											
07...	1345	E5430	4.0	380	50	22	3.3	5.8	.7	43	0
SEP.											
05...	1140	E2860	3.3	240	80	17	3.9	7.0	1.1	47	0

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT.											
11...	44	19	12	.1	.48	.02	.78	.10	.03	98	26
NOV.											
08...	36	16	15	.0	.34	.01	.44	.03	.01	90	7
DEC.											
12...	33	16	7.3	.0	.40	.01	.24	.03	.01	73	7
JAN.											
16...	31	14	11	.0	.49	.01	.25	.01	.01	76	10
FEB.											
21...	28	14	13	.0	.49	.00	.11	.13	.00	76	1
MAR.											
21...	23	12	13	.0	.61	.00	.18	.04	.01	69	10
APR.											
16...	28	13	18	.1	.44	.01	.42	.02	.00	84	10
MAY											
14...	29	13	25	.1	.32	.01	.70	.03	.00	93	8
JUNE											
11...	30	15	16	.3	.47	.03	.13	.04	.01	83	3
JULY											
10...	39	10	12	.2	--	.00	.16	.03	.01	78	--
AUG.											
07...	35	15	20	.2	.76	.00	.31	.04	.02	96	10
SEP.											
05...	39	16	9.2	.4	.76	.01	.22	.13	.02	85	8

E Estimated value.

CONTINUED NEXT PAGE

01335771 HUDSON RIVER AT MONITOR AT WATERFORD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
11...	143	103	68	24	169	7.5	21	.0	--	--	--
NOV.											
08...	114	77	65	29	160	7.1	15	.0	--	--	--
DEC.											
12...	93	63	50	17	120	7.0	7	.0	--	--	--
JAN.											
16...	97	64	53	22	131	7.3	9	.0	--	--	--
FEB.											
21...	88	68	51	24	135	7.2	7	.0	--	--	--
MAR.											
21...	101	62	49	26	120	7.3	7	.0	--	--	--
APR.											
16...	127	82	61	34	154	7.2	9	.0	--	--	<.5
MAY											
14...	173	110	70	41	175	6.6	10	.0	--	--	--
JUNE											
11...	137	78	57	27	155	6.9	12	.0	--	--	--
JULY											
10...	113	84	60	21	145	7.5	12	.0	80	5	4.2
AUG.											
07...	147	90	69	33	174	7.1	15	.0	--	--	--
SEP.											
05...	104	740	59	20	151	7.0	15	.0	--	--	--

01346495 MOHAWK RIVER ABOVE LITTLE FALLS, N.Y.

LOCATION.--Lat 43°02'05", long 74°51'57", Herkimer County, at Erie (Barge) Canal terminal building on south bank in Little Falls and 0.1 mi (0.2 km) upstream from highway bridge and dams.

DRAINAGE AREA.--1,285 mi² (3,328 km²).

PERIOD OF RECORD.--Chemical analyses: April to September 1973.

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
APR. 24...	1230	E3190	3.7	590	80	28	5.1	4.2	1.0	83	0
JUNE 19...	1130	E1800	3.9	780	80	34	5.8	4.8	1.0	104	0
JULY 17...	1130	E1200	3.1	580	90	34	5.7	6.4	1.3	101	0
SEP. 11...	1300	E870	3.8	550	130	34	6.1	7.4	1.7	103	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
APR. 24...	68	21	5.9	.1	.90	.15	.35	.07	.03	114	16
JUNE 19...	85	21	6.2	.1	.87	.13	.17	.09	.03	132	22
JULY 17...	83	22	8.0	.2	1.1	.11	.25	.08	.04	136	19
SEP. 11...	84	29	8.9	.2	1.0	.08	.16	.09	.07	147	11

DATE	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)
APR. 24...	11	153	112	91	23	203	7.5	8	.0	--
JUNE 19...	16	179	142	110	23	230	7.9	10	.0	--
JULY 17...	14	178	160	110	26	245	7.4	11	.0	--
SEP. 11...	8	177	140	110	26	266	7.6	8	.0	0

E Estimated value.

01348002 EAST CANADA CREEK NEAR ST. JOHNSVILLE, N.Y.

LOCATION.--Lat 43°00'21", long 74°44'30", Herkimer County, at bridge 0.1 mi (0.2 km) upstream from bridge on State Highway 5, 0.6 mi (1.0 km) upstream from mouth, 0.6 mi (1.0 km) downstream from gaging station (01348000) at East Creek, and 2.7 mi (4.3 km) northwest of St. Johnsville.

DRAINAGE AREA.--291 mi^2 (754 km^2) at gage.

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT.												
26...	1145	E467	--	--	--	--	--	--	--	--	--	--
JULY												
17...	1230	E33	3.2	200	30	15	2.3	2.0	.7	49	0	40
SEP.												
11...	1230	E32	4.1	170	90	18	3.3	3.0	.7	64	0	52

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT.											
26...	--	--	--	--	--	--	--	--	--	--	--
JULY											
17...	6.0	2.0	.2	.20	.00	.18	.01	.00	57	3	69
SEP.											
11...	6.3	2.3	.2	.20	.01	.16	.01	.00	71	2	82

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
26...	--	--	--	--	--	--	--	0	20	3	<.5
JULY											
17...	47	47	7	100	7.0	11	.0	--	--	--	--
SEP.											
11...	68	59	6	120	7.5	9	.0	0	--	--	--

E Estimated value.

01348795 MOHAWK RIVER AT LOCK 15, AT FORT PLAIN, N.Y.

LOCATION.--Lat 42°56'20", long 73°37'20", Montgomery County, at Erie (Barge) Canal Lock 15 movable dam in Fort Plain, 0.4 mi (0.6 km) upstream from bridge on State Highway 80 and 0.5 mi (0.8 km) upstream from Otsquago Creek.

DRAINAGE AREA.--1,805 mi² (4,675 km²).

PERIOD OF RECORD.--Chemical analyses: April to September 1973.

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
APR.											
24...	1330	3.6	330	60	25	4.4	4.0	.9	78	0	64
JUNE											
19...	1230	3.5	290	60	35	6.4	5.0	1.1	109	0	89
JULY											
17...	1300	3.5	380	50	34	5.9	6.3	1.1	102	0	84
SEP.											
11...	1400	4.0	310	50	33	5.4	7.2	1.6	99	0	81

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
APR.										
24...	17	5.	.1	.96	.14	.20	.05	.02	104	7
JUNE										
19...	22	7.	.1	.78	.12	.14	.06	.02	130	7
JULY										
17...	22	8.	.2	.79	.04	.11	.05	.03	135	5
SEP.										
11...	28	9.	.3	.97	.00	.16	.06	.04	142	8

DATE	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)
APR.										
24...	3	10	99	81	17	182	7.6	8	.0	--
JUNE										
19...	3	10	137	110	24	238	7.8	8	.0	--
JULY										
17...	2	10	130	110	26	266	7.7	7	.0	--
SEP.										
11...	3	17	155	110	23	296	7.5	8	.0	0

01349520 CAYADUTTA CREEK AT FONDA, N.Y.

LOCATION.--Lat 42°57'10", long 74°22'49", Montgomery County, at railroad bridge, 0.1 mi (0.2 km) downstream from bridge on State Highway 5 in Fonda and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--63.3 mi² (163.9 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
04...	1130	7.2	190	40	81	10	240	4.9	260	0	213	120
31...	1230	8.7	420	30	64	8.8	84	3.5	192	0	157	60
DEC.												
05...	1245	8.1	400	30	64	8.2	68	2.1	204	0	167	48
JAN.												
09...	1220	8.9	240	30	76	9.2	80	2.5	191	0	157	62
FEB.												
13...	1240	9.0	450	60	74	5.2	120	3.2	171	0	140	74
MAR.												
13...	1200	5.7	720	50	38	5.0	29	1.5	109	0	89	29
APR.												
10...	1230	6.3	1300	60	56	6.9	54	1.8	157	0	129	45
JUNE												
05...	1315	7.5	420	60	69	8.6	110	2.6	228	0	187	58
JULY												
02...	1245	8.0	870	70	53	6.5	21	1.8	164	0	135	19
30...	1215	7.7	460	20	61	9.0	72	3.3	144	0	118	58
AUG.												
28...	1245	7.8	150	20	72	11	220	4.8	233	0	191	110
SEP.												
25...	1228	9.6	230	20	63	9.7	160	5.0	227	0	186	88

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
04...	290	.7	1.9	1.3	2.6	.39	.36	906	13	2	942
31...	110	.6	3.2	.58	2.1	.39	.10	449	17	7	484
DEC.											
05...	94	.3	.87	.03	1.1	.22	.04	409	16	8	433
JAN.											
09...	110	.2	5.4	4.1	1.1	.22	.07	468	13	10	486
FEB.											
13...	170	1.0	6.0	.03	1.1	.20	.09	577	12	5	610
MAR.											
13...	38	.2	2.1	.03	.57	.15	.06	210	28	13	232
APR.											
10...	70	.5	3.4	2.4	1.0	.23	.13	333	46	36	376
JUNE											
05...	150	.3	.99	.08	1.3	.63	.03	529	16	6	572
JULY											
02...	29	.2	1.3	1.0	.00	.15	.04	237	86	14	289
30...	80	.5	11	.00	.36	.25	.12	420	7	2	464
AUG.											
28...	370	.8	34	.00	1.1	.20	.10	873	8	2	834
SEP.											
25...	290	.6	2.2	.17	2.0	.15	.11	671	11	2	670

01349520 CAYADUTTA CREEK AT FONDA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
04...	880	240	30	1640	7.6	41	.3	--	--	--	--
31...	432	200	39	784	7.6	35	.0	10	20	14	<.5
DEC.											
05...	385	190	23	713	7.6	16	.1	--	--	--	--
JAN.											
09...	432	230	73	600	7.2	30	.1	--	--	--	--
FEB.											
13...	554	210	66	1010	7.5	23	.2	--	--	--	--
MAR.											
13...	210	120	26	370	7.2	12	.1	--	--	--	--
APR.											
10...	340	170	39	581	7.2	20	.1	--	--	--	--
JUNE											
05...	519	210	21	975	7.4	33	.2	--	--	--	--
JULY											
02...	226	160	25	405	7.3	36	.0	0	0	19	5.5
30...	369	190	71	741	7.1	33	.1	--	--	--	--
AUG.											
28...	728	230	34	1460	7.2	32	.1	--	--	--	--
SEP.											
25...	592	200	11	1180	7.0	46	.1	--	--	--	--

01349527 MOHAWK RIVER AT FONDA, N.Y.

LOCATION.--Lat 42°57'01", long 74°22'21", Montgomery County, at dock of State Department of Transportation Erie (Barge) Canal terminal in Fonda, 0.1 mi (0.2 km) upstream from bridge on State Highway 30A, and 0.4 mi (0.6 km) downstream from Cayadutta Creek.

DRAINAGE AREA.--2,125 mi² (5,504 km²).

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
04...	1200	3.4	360	40	40	7.2	8.0	1.5	111	0	91	34
31...	1200	5.0	450	50	39	6.5	10	1.6	112	0	92	30
DEC.												
05...	1215	5.3	350	20	40	6.7	13	1.6	120	0	98	28
JAN.												
09...	1200	6.8	520	130	55	8.5	28	1.3	152	0	125	38
FEB.												
13...	1200	6.0	510	10	36	5.3	30	1.3	98	0	80	30
MAR.												
13...	1140	4.7	1700	70	30	4.6	10	1.1	90	0	74	22
APR.												
10...	1150	4.4	1100	80	35	5.4	13	1.1	103	0	84	24
JUNE												
05...	1300	3.8	450	60	36	5.7	11	.9	109	0	89	20
JULY												
02...	1215	4.7	570	70	31	4.5	5.5	1.2	94	0	77	16
30...	1145	.5	420	50	34	5.6	8.7	1.1	98	0	80	25
AUG.												
28...	1200	1.2	180	40	40	6.7	19	1.6	110	0	90	32
SEP.												
25...	1145	5.0	320	40	29	5.9	8.9	1.2	96	0	79	24

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
04...	11	.2	.81	.07	.79	.11	.10	164	8	4	183
31...	15	.2	.59	.10	.41	.15	.12	165	10	7	180
DEC.											
05...	20	.3	.78	.01	.59	.07	.03	170	11	7	192
JAN.											
09...	36	.5	2.4	.01	.67	.06	.02	260	10	8	275
FEB.											
13...	38	.4	2.1	.10	.52	.11	.06	205	4	3	224
MAR.											
13...	14	.4	1.2	.00	.04	.13	.08	137	50	40	186
APR.											
10...	16	.3	1.2	.27	.90	.10	.07	156	32	27	190
JUNE											
05...	16	.2	.93	.27	.30	.07	.04	152	11	5	190
JULY											
02...	7.4	.2	.93	.21	.02	.06	.02	121	10	5	154
30...	12	.2	.69	.00	.54	.05	.02	130	8	5	180
AUG.											
28...	25	.4	1.4	.00	.32	.05	.04	167	6	5	211
SEP.											
25...	10	.3	.96	.00	.19	.05	.04	136	7	6	156

01349527 MOHAWK RIVER AT FONDA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNI- TION (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
04...	145	130	38	284	7.8	10	.0	--	--	--	--
31...	151	120	32	281	7.7	11	.0	10	10	3	<.5
DEC.											
05...	162	130	32	314	7.6	7	.0	--	--	--	--
JAN.											
09...	238	170	45	456	7.1	10	.0	--	--	--	--
FEB.											
13...	194	110	31	364	7.4	9	.0	--	--	--	--
MAR.											
13...	160	94	20	237	7.7	11	.0	--	--	--	--
APR.											
10...	165	110	25	274	7.6	10	.0	--	--	--	--
JUNE											
05...	148	110	24	272	7.6	9	.0	--	--	--	--
JULY											
02...	115	96	19	215	7.6	16	.0	0	0	9	5.0
30...	131	110	28	248	7.6	11	.0	--	--	--	--
AUG.											
28...	176	130	37	339	7.2	9	.0	--	--	--	--
SEP.											
25...	132	97	18	255	7.7	8	.0	--	--	--	--

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.

LOCATION.--Lat 42°27'57", long 74°27'45", Schoharie County, at gaging station on left bank, 2,300 ft (701 m) upstream from West Kill, and 1.2 mi (1.9 km) upstream from bridge on State Highway 30 in North Blenheim.

DRAINAGE AREA.--359 mi² (930 km²).

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Minimum recorded, freezing point on Jan. 1, 13, 14.

Period of record:
Water temperatures: Minimum, freezing point on several days during winter periods.

REMARKS.--No flow October 15 - November 1. No water temperature record October 1-6, 11, November 6 - December 13, January 5-12, August 1, 4-5, 8-9. Water temperature probe out of water July 19-29. During periods of low flow and direct sun, water temperature probe may not indicate value tru representative of the stream.

REVISIONS.--Water temperature data previously published for water year 1972 for the periods June 20 to July 2, Aug. 30 to Sept. 13 were found to be questionable therefore should not be considered valid. Since the maximum for the 1972 water year may have occurred during this period no maximum is reportable for 1972 water year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	UCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	2.0	0.0	1.0	1.0	5.5	4.0
2	---	---	9.5	8.5	---	---	2.5	2.0	1.5	1.0	5.5	4.0
3	---	---	10.0	9.5	---	---	2.5	2.0	1.5	1.5	5.0	4.0
4	---	---	9.5	9.0	---	---	2.0	2.0	2.0	1.5	5.5	4.5
5	---	---	9.0	8.5	---	---	---	---	2.0	1.5	5.5	5.0
6	---	---	---	---	---	---	---	---	2.0	1.5	5.5	5.0
7	16.5	15.0	---	---	---	---	---	---	2.0	2.0	6.0	3.5
8	16.5	14.0	---	---	---	---	---	---	2.0	2.0	6.0	2.0
9	---	---	---	---	---	---	---	---	2.5	2.0	6.0	4.0
10	---	---	---	---	---	---	---	---	2.5	2.0	6.0	6.0
11	---	---	---	---	---	---	---	---	2.5	2.0	6.0	5.5
12	---	---	---	---	---	---	---	---	2.5	2.0	6.0	4.0
13	---	---	---	---	---	---	1.5	0.0	3.0	2.0	6.0	5.5
14	---	---	---	---	2.5	2.5	1.5	0.0	3.0	2.0	6.0	5.5
15	12.0	11.0	---	---	2.5	2.0	1.5	1.5	3.0	2.5	6.0	5.5
16	11.0	10.5	---	---	2.5	2.0	1.5	1.0	3.0	2.5	6.0	5.5
17	12.0	10.5	---	---	2.0	1.5	2.5	1.0	3.0	2.5	6.0	4.0
18	10.5	9.5	---	---	1.5	1.5	2.0	1.5	3.5	2.5	6.0	3.5
19	10.5	9.0	---	---	1.5	1.5	2.0	1.5	3.5	2.5	5.5	5.5
20	9.5	8.0	---	---	1.5	1.5	2.0	1.5	4.0	3.0	5.5	5.5
21	9.5	7.5	---	---	1.5	1.5	2.5	1.0	4.0	3.5	5.5	5.0
22	9.5	9.0	---	---	1.5	1.5	3.0	2.0	4.0	3.0	5.0	5.0
23	10.5	9.5	---	---	1.5	1.5	2.0	1.5	4.0	3.0	5.0	4.5
24	11.0	10.5	---	---	2.0	1.5	1.5	1.5	4.5	3.5	5.0	4.5
25	10.5	10.0	---	---	2.0	1.5	2.0	1.0	4.5	3.5	5.0	4.5
26	10.5	9.0	---	---	2.0	2.0	2.0	1.0	4.5	3.5	5.0	5.0
27	10.5	8.5	---	---	2.0	2.0	2.0	1.0	4.5	3.5	5.0	5.0
28	10.5	9.0	---	---	2.0	2.0	2.0	1.5	5.0	3.5	5.0	5.0
29	10.5	10.0	---	---	2.0	1.5	1.5	1.0	---	---	5.5	5.0
30	10.0	8.5	---	---	2.0	2.0	1.5	1.0	---	---	5.5	5.0
31	8.5	8.0	---	---	2.0	2.0	1.0	0.5	---	---	6.0	5.0

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.5	8.5	8.0	13.5	12.0	21.0	20.5	---	---	29.0	19.0
2	5.5	5.5	9.0	8.5	15.0	11.5	21.0	20.5	29.0	27.0	30.5	22.0
3	5.5	5.5	9.5	9.0	16.0	11.0	21.5	21.0	29.5	27.0	30.0	22.0
4	5.5	5.0	9.5	9.0	16.0	13.5	22.5	21.0	---	---	30.0	20.5
5	5.0	5.0	9.0	9.0	18.0	12.0	23.0	17.5	---	---	26.0	19.5
6	5.0	5.0	9.5	8.0	14.0	11.5	22.5	16.5	32.5	24.0	24.0	18.0
7	5.0	5.0	10.0	9.0	15.5	11.0	21.5	17.0	33.5	29.5	23.0	15.5
8	5.0	4.5	10.0	9.0	17.0	10.5	20.5	14.0	---	---	22.0	14.5
9	5.0	4.5	10.5	9.0	12.5	11.5	19.0	15.0	---	---	22.0	13.5
10	5.0	5.0	10.5	6.0	13.5	7.0	17.0	15.0	32.5	23.5	22.5	12.5
11	5.0	4.5	10.5	6.0	15.0	13.0	20.0	15.5	29.0	23.5	19.5	13.5
12	5.0	4.5	11.0	10.5	16.0	14.5	22.5	20.0	29.5	21.5	19.5	13.0
13	5.0	4.0	11.0	10.0	18.0	11.0	21.5	16.0	26.0	20.0	21.0	12.0
14	5.0	4.5	11.0	10.5	18.5	9.5	23.0	14.0	23.5	19.5	16.0	14.0
15	5.0	4.5	10.5	10.5	17.5	12.0	23.0	21.5	21.5	15.5	17.5	14.5
16	6.0	4.0	11.0	10.5	18.0	12.5	23.5	22.0	28.0	20.0	18.0	14.0
17	6.0	3.5	11.5	11.0	19.5	16.0	23.5	16.5	31.0	19.0	22.0	11.5
18	6.0	5.5	11.0	10.0	18.0	15.5	24.0	20.0	27.5	20.0	19.5	13.5
19	6.5	6.0	10.5	10.0	19.5	15.0	---	---	28.5	19.5	21.5	11.5
20	7.0	6.5	10.0	10.0	19.0	16.5	---	---	25.5	21.0	16.5	10.5
21	8.0	7.0	10.0	9.5	19.0	18.0	---	---	27.5	19.0	19.0	10.0
22	8.5	7.5	10.0	9.5	19.0	17.5	---	---	26.5	18.0	13.5	10.0
23	8.5	8.0	10.0	9.5	20.5	17.0	---	---	26.5	15.0	21.5	13.5
24	9.0	3.0	10.0	10.0	21.5	17.5	---	---	27.5	17.0	15.5	14.0
25	9.5	3.5	11.0	10.0	21.5	18.0	---	---	29.0	18.0	19.0	13.0
26	8.5	4.0	11.0	10.5	22.0	18.5	---	---	28.5	19.0	19.5	12.0
27	8.5	8.0	11.5	11.0	22.5	18.5	---	---	27.0	20.5	21.0	12.0
28	9.0	8.0	12.0	11.5	22.5	19.5	---	---	30.5	22.0	19.5	15.0
29	9.0	4.5	12.5	12.0	21.5	20.0	---	---	31.0	21.5	17.0	12.0
30	8.5	8.0	12.5	12.0	21.5	20.5	29.0	21.5	30.0	20.0	18.5	10.5
31	---	---	13.0	12.5	---	---	30.0	20.0	29.0	20.0	---	---

01353995 SCHOHARIE CREEK AT FORT HUNTER, N.Y.

LOCATION.--Lat 42°56'17", long 74°16'57", Montgomery County, at bridge on State Highway 5S in Fort Hunter and 0.6 mi (1.0 km) upstream from mouth.

DRAINAGE AREA.--926 mi^2 (2,398 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT. 31...	1130	139	1.5	270	0	40	6.0	6.5	2.8	111	0	91
DEC. 05...	1145	2240	3.9	340	10	26	2.8	4.2	1.1	68	0	56
JUNE 05...	1230	840	.3	60	0	34	2.8	5.5	1.1	103	0	84
JULY 02...	1140	3810	3.6	1350	60	17	2.0	2.9	.9	50	0	41
AUG. 28...	1130	--	2.0	100	20	34	5.7	8.8	2.6	102	0	84

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT. 31...	33	10	.0	.34	.00	.43	.01	.00	156	7	5	168
DEC. 05...	20	6.6	.0	.54	.00	.48	.02	.01	101	6	3	114
JUNE 05...	17	5.8	.2	.32	.01	.57	.00	.00	119	2	0	132
JULY 02...	9.4	2.8	.1	.34	.01	.30	.05	.01	65	36	31	--
AUG. 28...	25	13	.3	.42	.00	.18	.00	.00	144	1	0	155

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 31...	141	130	34	268	8.0	11	.0	0	0	6	<.5
DEC. 05...	86	76	20	174	7.5	3	.0	--	--	--	--
JUNE 05...	111	96	12	215	7.9	4	.0	--	--	--	--
JULY 02...	--	51	10	116	7.6	11	.0	0	0	7	5.2
AUG. 28...	126	110	25	258	7.7	4	.0	--	--	--	--

01354000 MOHAWK RIVER AT TRIBES HILL, N.Y.

LOCATION.--Lat 42°56'42", long 74°17'21", Montgomery County, at bridge on highway between Tribes Hill and Fort Hunter and 0.3 mi (0.5 km) downstream from Schoharie Creek.

DRAINAGE AREA.--3,096 mi² (8,019 km²).

PERIOD OF RECORD.--Chemical analyses: April to September 1973.

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1973

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)
APR. 24...	1100	1.6	190	0	21	2.6	3.9	1.0	63	0	52
JUNE 17...	1330	2.7	340	30	36	6.3	6.3	1.1	108	0	89
JULY 17...	1400	.5	140	50	34	5.5	8.9	1.1	106	0	87
SEP. 11...	1130	.9	370	60	35	6.2	12	1.8	105	0	86

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
APR. 24...	15	5.6	.0	.36	.02	.10	.01	.00	84	11
JUNE 17...	18	8.5	.1	.83	.17	.15	.06	.02	136	10
JULY 17...	21	10	.2	.46	.02	.02	.05	.03	136	5
SEP. 11...	33	16	.3	.93	.00	.25	.06	.04	161	10

DATE	FIXED NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	RESIDUE ON IGNI- TION (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)
APR. 24...	10	108	88	63	11	152	7.6	6	.0	--
JUNE 17...	4	179	135	120	27	250	7.8	9	.0	--
JULY 17...	4	166	126	110	21	251	7.9	11	.0	--
SEP. 11...	7	186	162	110	27	298	7.5	10	.0	0

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.

LOCATION.--Lat 42°55'03", long 74°08'31", Montgomery County, at Erie (Barge) Canal Lock 10, 0.2 mi (0.3 km) upstream from Evas Kill, 0.3 mi (0.5 km) west of Cranesville, and 0.8 mi (1.3 km) downstream from Terwilleger Creek.

DRAINAGE AREA--3,220 mi² (8,340 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
04...	1230	1.0	260	30	41	7.0	13	1.6	114	0	94	36
16...	1300	3.2	320	80	39	6.7	13	1.5	114	0	94	34
31...	1100	4.5	610	50	40	6.6	7.4	1.8	113	0	93	31
NOV.												
13...	1300	4.7	1100	70	30	4.8	4.2	2.0	88	0	72	26
DEC.												
05...	1115	4.5	400	30	33	5.3	6.2	1.2	97	0	80	25
JAN.												
09...	1130	5.3	350	40	34	5.5	7.1	1.0	92	0	75	23
23...	1300	4.0	2100	50	29	4.0	4.9	1.4	80	0	66	21
FEB.												
06...	1300	4.0	1000	130	25	3.7	6.2	1.1	71	0	58	17
13...	1115	4.7	750	60	31	4.8	6.8	.1	87	0	71	22
26...	1400	5.2	480	60	31	4.9	8.5	.9	87	0	71	23
MAR.												
13...	1055	4.0	2300	60	27	3.9	4.3	1.1	74	0	61	20
27...	1330	3.7	130	0	26	3.9	4.8	1.0	78	0	64	21
APR.												
10...	1115	3.8	1700	50	28	3.8	6.4	1.0	78	0	64	23
24...	1000	3.1	190	30	28	4.1	4.3	.8	78	0	64	18
JUNE												
05...	1150	3.3	940	70	32	5.0	4.8	.8	94	0	77	18
19...	1000	1.7	250	20	31	4.7	6.8	1.0	91	0	75	15
JULY												
02...	1045	4.0	930	50	24	3.0	3.8	1.2	70	0	57	12
17...	1000	.6	310	40	33	5.1	8.3	1.1	99	0	81	20
30...	1115	.3	420	50	36	6.0	13	1.2	107	0	88	28
AUG.												
28...	1100	.4	110	85	37	6.1	12	1.9	93	0	76	35
SEP.												
11...	1030	.3	240	60	35	6.3	12	1.8	106	0	87	33
25...	1110	3.3	150	30	33	6.7	16	1.5	97	0	80	31

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
04...	17	.2	.76	.04	.55	.12	.10	177	12	7	199
16...	18	.3	.62	.03	.61	.13	.10	175	8	4	201
31...	18	.1	.64	.05	.62	.13	.09	168	16	13	183
NOV.											
13...	6.0	.0	.59	.01	.43	.09	.03	126	33	29	160
DEC.											
05...	9.5	.1	.66	.00	.50	.04	.02	136	6	1	144
JAN.											
09...	11	.1	1.0	.05	.25	.03	.02	137	8	7	152
23...	7.0	.1	.96	.00	.40	.16	.04	115	63	56	170
FEB.											
06...	8.5	.0	.79	.04	.41	.07	.03	106	47	44	160
13...	11	.1	1.2	.00	.27	.09	.03	129	11	9	150
26...	13	.4	.76	.01	.19	.07	.03	136	12	7	155
MAR.											
13...	7.7	.1	.80	.00	--	.11	.07	108	98	90	180
27...	8.2	.0	.85	.00	.13	.08	.02	111	29	28	147
APR.											
10...	10	.2	.74	.05	.11	.06	.04	118	91	61	182
24...	8.0	.2	.77	.00	.33	.04	.02	107	6	2	125
JUNE											
05...	8.2	.2	.59	.06	.76	.06	.02	118	26	17	13
19...	8.2	.1	.62	.00	.12	.06	.01	117	8	6	163
JULY											
02...	6.8	.2	.56	.03	.00	.05	.01	98	23	18	131
17...	11	.2	.50	.04	.58	.06	.03	131	6	6	162
30...	10	.3	.06	.00	.26	.07	.07	148	5	2	211
AUG.											
28...	10	.4	1.6	.00	1.3	.08	.05	148	6	6	190
SEP.											
11...	10	.3	.91	.00	.20	.06	.05	161	7	1	186
25...	10	.3	1.2	.00	.20	.05	.06	161	6	3	184

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
04...	166	130	38	305	7.6	11	.0	--	--	--	--
16...	155	130	31	301	8.1	12	.0	3	0	4	<.5
31...	149	130	34	272	7.8	11	.0	0	20	6	<.5
NOV.											
13...	130	95	23	204	7.5	13	.0	10	0	52	<.5
DEC.											
05...	119	100	20	235	7.6	13	.0	--	--	--	--
JAN.											
09...	128	110	35	243	7.5	9	.0	--	--	--	--
23...	149	89	23	200	7.6	13	.0	--	--	--	--
FEB.											
06...	124	78	19	186	7.5	7	.0	--	--	--	--
13...	124	97	26	222	7.6	5	.0	--	--	--	--
26...	137	98	26	238	7.7	7	.0	--	--	--	--
MAR.											
13...	141	83	23	180	7.6	9	.0	--	--	--	--
27...	109	81	17	165	7.7	8	.0	--	--	--	--
APR.											
10...	131	86	22	196	7.8	8	.0	--	--	--	--
24...	92	87	23	184	7.9	7	.0	--	--	--	--
JUNE											
05...	110	100	23	211	7.4	8	.0	--	--	--	--
19...	124	97	22	215	7.9	10	.0	--	--	--	--
JULY											
02...	99	72	15	162	7.5	12	.0	0	0	28	4.6
17...	117	100	22	240	7.7	8	.0	--	--	--	--
30...	147	120	27	287	7.4	17	.0	--	--	--	--
AUG.											
28...	156	120	41	294	7.0	12	.0	--	--	--	--
SEP.											
11...	167	110	26	289	7.4	8	.0	0	--	--	--
25...	153	110	30	300	7.7	10	.0	--	--	--	--

01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.

LOCATION.--Lat 42°49'07", long 73°56'59", Schenectady County, at abutment of former bridge at end of Washington Avenue in Schenectady, 0.3 mi (0.5 km) downstream from Western Gateway Bridge, and 1.0 mi (1.6 km) upstream from Collins Creek.

DRAINAGE AREA.--3,302 mi² (8,552 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
04...	1315	.1	1100	70	42	7.4	13	1.6	120	0	98	38
16...	1400	1.2	930	90	42	7.1	10	1.7	122	0	100	34
31...	1330	4.5	620	50	38	6.9	12	1.8	114	0	94	33
NOV.												
13...	1400	5.2	2500	130	34	5.3	7.9	2.3	101	0	83	29
DEC.												
05...	1400	4.8	390	20	33	5.2	8.2	1.6	96	0	79	24
JAN.												
23...	1400	4.4	1900	50	31	4.8	6.8	1.3	85	0	70	22
MAR.												
13...	1315	4.3	2200	80	30	4.4	5.1	1.1	82	0	67	20
27...	1400	4.2	2800	120	30	4.6	7.6	1.2	91	0	75	21
APR.												
10...	1350	4.0	1500	60	30	4.5	6.5	1.1	89	0	73	21
24...	0900	3.2	80	0	27	4.4	5.7	1.0	80	0	66	19
JUNE												
05...	1430	3.5	510	40	32	5.0	6.0	1.0	97	0	80	20
19...	0900	.3	400	30	33	5.2	7.1	1.2	98	0	80	18
JULY												
02...	1420	4.2	2890	150	27	3.4	5.0	1.4	79	0	65	14
17...	0900	.9	260	30	31	5.0	6.7	1.2	94	0	77	16
30...	1340	.7	600	60	39	6.3	13	1.4	111	0	91	27
AUG.												
28...	1400	.8	220	40	39	6.4	17	1.8	110	0	90	32
SEP.												
11...	0930	.5	220	50	36	6.1	16	2.1	108	0	89	33
25...	1310	.5	220	40	35	7.0	19	1.8	113	0	93	33

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
04...	19	.1	.56	.01	.74	.17	.11	183	36	30	240
16...	14	.2	.62	.02	1.6	.24	.16	174	40	30	222
31...	17	.1	.67	.07	.50	.11	.08	173	12	9	191
NOV.											
13...	11	.0	.68	.01	.77	.20	.05	148	83	74	226
DEC.											
05...	13	.1	.66	.01	.54	.06	.04	140	7	4	165
JAN.											
23...	9.5	.1	1.0	.00	.31	.14	.04	127	56	49	184
MAR.											
13...	8.5	.1	.80	.00	.80	.12	.08	118	70	60	182
27...	12	.0	1.0	.02	.55	.12	.03	130	86	72	214
APR.											
10...	7.5	.3	.38	.00	.47	.09	.02	121	48	38	179
24...	8.2	.1	.81	.15	.38	.05	.02	112	5	0	138
JUNE											
05...	8.7	.2	.68	.11	.17	.06	.03	128	11	5	162
19...	10	.0	.47	.03	.19	.05	.00	125	12	8	165
JULY											
02...	6.0	.1	.61	.02	.64	.15	.04	103	101	89	114
17...	9.0	.2	.45	.01	.37	.05	.05	119	11	9	150
30...	17	.2	.89	.00	.27	.06	.04	163	13	9	200
AUG.											
28...	22	.4	1.0	.00	.30	.08	.05	178	8	4	192
SEP.											
11...	20	.3	1.3	.01	.21	.07	.05	173	5	0	200
25...	21	.3	1.2	.00	.30	.04	.03	179	6	0	193

01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
04...	192	140	37	319	8.2	10	.0	--	--	--	--
16...	188	130	30	306	8.3	16	.0	6	0	180	<.5
31...	163	120	30	296	7.7	12	.0	0	30	7	<.5
NOV.											
13...	191	110	27	242	7.5	18	.0	10	20	160	<.5
DEC.											
05...	129	100	21	244	8.0	7	.0	--	--	--	--
JAN.											
23...	159	97	27	221	7.5	11	.0	--	--	--	--
MAR.											
13...	161	93	26	195	7.5	8	.0	--	--	--	--
27...	175	94	19	219	7.7	14	.0	--	--	--	--
APR.											
10...	146	93	20	212	7.2	18	.0	--	--	--	--
24...	107	86	20	200	7.7	8	.0	--	--	--	--
JUNE											
05...	125	100	21	222	7.6	9	.0	--	--	--	--
19...	129	100	23	232	8.0	11	.0	--	--	--	--
JULY											
02...	91	81	17	184	7.6	26	.0	0	0	32	6.0
17...	129	98	21	221	7.6	8	.0	--	--	--	--
30...	151	120	32	292	7.4	11	.0	--	--	--	--
AUG.											
28...	163	120	34	317	7.3	10	.0	--	--	--	--
SEP.											
11...	178	120	26	326	7.1	11	.0	0	0	410	2.7
25...	171	120	24	328	7.4	29	.0	--	--	--	--

01356000 MOHAWK RIVER AT VISCHER FERRY DAM, N.Y.

LOCATION.--Lat 42°48'27", long 73°50'39", Saratoga County, at bridge crossing headrace of Vischer Ferry powerplant operated by New York State Department of Transportation at Vischer Ferry Dam.

DRAINAGE AREA.--3,385 mi^2 (8,767 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1951 to September 1953.
Water temperatures: October 1951 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 28.0°C Aug. 10-12; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 29.5°C Aug. 1955; minimum, freezing point on many days during winter periods.

REMARKS.-- Additional water quality data available from New York State Department of Environmental Conservation.

COOPERATION.--Water temperature record furnished by New York State Department of Transportation.

CHEMICAL ANALYSIS, JUNE 1973

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE				
26...	6	0	3	<.5

01356000 MOHAWK RIVER AT VISCHER FERRY DAM, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(TWICE DAILY MEASUREMENTS AT 0800 AND 1600)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	17.0	18.0	8.5	8.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0
2	16.5	17.0	5.5	8.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
3	16.5	17.0	8.5	8.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4	16.5	16.5	8.5	8.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5	16.5	16.5	8.0	7.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
6	16.5	16.5	8.0	8.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
7	16.5	16.5	7.0	7.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5
8	16.0	16.0	7.0	7.0	1.0	0.5	0.0	0.0	0.0	0.0	1.0	1.5
9	16.0	16.0	7.0	7.0	1.0	1.0	0.0	0.0	0.0	0.0	0.5	1.0
10	13.5	14.5	7.0	7.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
11	13.0	12.0	7.0	7.0	1.0	1.0	0.0	0.0	0.0	0.0	2.0	2.0
12	12.0	12.0	6.5	6.5	1.0	1.0	0.0	0.0	0.0	0.0	2.0	3.0
13	12.0	13.0	6.5	7.0	1.0	1.0	0.0	0.0	0.0	0.0	3.5	4.0
14	13.0	13.0	6.5	6.5	1.0	1.0	0.0	0.0	0.0	0.0	4.5	4.0
15	13.0	13.0	6.5	6.5	1.0	0.5	0.0	0.0	0.0	0.0	4.0	4.0
16	12.0	11.0	4.5	4.5	1.0	0.0	0.0	0.0	0.0	0.0	4.0	4.5
17	12.0	11.0	4.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5
18	10.0	10.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
19	10.0	10.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.5
20	9.5	9.5	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.5
21	9.0	9.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	5.0
22	9.0	9.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.0
23	9.0	9.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.5
24	9.0	9.5	2.0	2.0	0.0	0.5	0.0	0.0	0.0	0.0	4.0	4.0
25	9.0	9.0	2.0	2.0	0.5	0.5	0.0	0.0	0.0	0.0	4.0	4.0
26	9.0	9.0	2.0	2.0	0.5	0.5	0.0	0.0	0.0	0.0	3.5	3.5
27	9.0	9.0	2.0	2.0	0.5	0.5	0.0	0.0	0.0	0.0	3.5	3.5
28	9.0	9.5	2.0	2.0	0.5	0.5	0.0	0.0	0.0	0.0	3.0	3.5
29	9.0	9.0	2.0	2.0	0.0	0.5	0.0	0.0	---	---	4.5	4.5
30	9.0	9.0	1.5	1.5	0.0	0.0	0.0	0.0	---	---	5.5	5.5
31	9.0	9.0	---	---	0.5	0.5	0.0	0.0	---	---	5.5	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	6.0	6.0	11.5	11.5	14.0	14.0	21.5	21.5	25.5	25.5	25.0	25.5
2	7.0	7.0	12.0	12.0	15.5	15.0	22.0	22.0	25.0	26.5	26.0	26.0
3	6.0	6.5	12.0	12.0	15.5	15.5	22.0	23.0	26.0	26.5	25.5	25.5
4	6.0	6.0	12.0	12.0	16.5	18.0	23.0	23.5	25.5	26.5	25.5	27.0
5	6.0	6.0	12.0	12.0	18.0	18.5	23.0	23.0	26.5	26.5	26.0	26.0
6	6.0	6.0	12.0	12.0	18.5	19.5	23.0	23.5	26.0	26.5	25.5	25.5
7	6.0	6.0	11.5	13.5	19.5	20.0	23.5	24.0	26.5	26.0	25.0	25.0
8	6.0	6.0	12.0	13.5	19.5	20.5	23.5	23.5	26.0	26.5	25.5	25.5
9	5.0	5.5	12.0	13.0	20.0	20.0	24.5	24.5	26.5	26.5	25.0	25.0
10	6.0	6.5	13.0	13.5	21.0	21.0	25.0	25.0	26.5	28.0	24.0	25.0
11	5.0	5.5	13.5	13.5	21.0	21.0	24.5	24.5	28.0	28.0	23.0	23.5
12	4.5	5.0	14.5	14.5	21.0	23.0	24.0	24.0	28.0	28.0	23.0	22.0
13	5.0	5.0	14.5	14.5	21.0	21.0	24.0	24.0	26.5	26.5	25.0	21.5
14	5.0	5.0	14.5	14.5	21.5	22.0	23.5	23.5	26.0	26.0	24.5	21.0
15	5.0	5.5	14.5	14.5	22.0	22.0	23.5	23.5	26.0	26.0	21.0	21.0
16	7.0	6.0	14.5	15.0	22.0	22.0	23.5	23.5	25.5	26.0	21.0	21.0
17	6.0	6.5	14.5	14.0	22.0	22.0	24.0	24.5	25.5	26.0	19.0	20.0
18	6.5	6.5	13.5	13.5	21.0	21.5	24.5	24.5	26.0	26.0	19.5	19.5
19	6.0	6.5	10.5	11.0	21.0	22.0	24.0	24.0	25.0	26.0	18.5	18.5
20	7.0	8.5	11.0	11.0	21.5	21.5	24.0	24.0	25.0	26.0	18.5	18.5
21	8.5	10.5	9.5	9.5	21.5	21.5	24.0	24.0	25.5	26.0	18.0	18.0
22	11.0	12.0	13.5	13.5	21.5	21.5	24.0	24.0	25.5	25.5	17.0	17.0
23	13.0	13.0	13.5	13.5	21.5	22.0	24.0	24.5	25.5	25.0	17.0	17.0
24	12.0	12.0	14.0	14.0	22.0	22.0	24.5	24.5	25.5	25.0	17.0	17.0
25	13.0	13.5	14.0	14.0	22.0	22.0	24.5	24.5	24.5	25.0	17.0	17.0
26	13.5	13.5	14.0	14.0	22.0	22.0	24.0	25.0	24.5	25.0	22.0	22.0
27	13.5	13.5	14.0	14.0	22.0	23.5	24.5	24.5	24.5	25.5	22.0	20.0
28	12.0	13.0	13.5	14.0	23.0	23.5	24.5	24.5	25.0	25.5	18.0	19.0
29	12.0	12.0	14.0	14.5	23.0	23.0	24.0	24.0	25.0	25.0	17.0	18.0
30	11.5	11.5	14.5	14.5	23.0	22.0	24.0	24.0	25.5	25.0	17.0	17.0
31	---	---	14.5	14.5	---	---	24.0	26.0	25.0	25.0	---	---

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.

LOCATION.--Lat 42°48'22", long 73°43'24", Albany County, at hydroelectric station at Crescent Dam and 1.7 mi (2.7 km) upstream from gaging station (01357500) at Cohoes.

DRAINAGE AREA.--3,453 mi^2 (8,943 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT.												
11...	1520	E2130	.3	240	20	44	7.6	14	1.9	123	0	101
24...	1545	E1800	.6	540	70	45	7.3	12	1.8	127	0	104
NOV.												
08...	1025	E6400	4.9	900	60	39	6.2	7.0	2.5	108	0	89
28...	1330	E16700	4.5	2900	50	31	4.8	5.1	2.1	87	0	71
DEC.												
12...	1020	E13800	4.3	1200	40	27	4.4	6.0	1.2	78	0	64
JAN.												
03...	1445	E22200	4.3	1800	30	27	3.8	4.5	1.3	74	0	61
16...	1020	E5460	5.4	100	0	36	5.8	7.6	1.2	100	0	82
FEB.												
06...	1700	E12300	3.9	1300	50	27	3.9	7.8	1.5	70	0	57
21...	1245	E5210	5.2	330	50	31	5.1	8.0	1.0	86	0	71
MAR.												
06...	1400	E14500	4.5	840	70	30	5.1	9.0	2.2	86	0	71
21...	1400	E13200	3.9	2000	60	25	3.7	4.7	1.0	67	0	55
APR.												
03...	1500	E39200	4.1	4400	14	29	4.1	4.8	1.4	81	0	66
16...	1400	E7540	4.0	1100	80	31	4.7	6.3	1.0	87	0	71
MAY												
08...	1440	E4550	2.6	1100	100	36	6.0	8.9	1.2	102	0	84
14...	1345	E9930	3.1	760	50	30	5.3	6.4	1.1	90	0	74
30...	1415	E11300	3.7	590	50	29	4.8	5.6	1.0	90	0	74
JUNE												
11...	1455	E4740	.8	560	60	35	5.8	7.9	1.3	109	0	89
27...	1400	E2630	.2	1100	100	34	5.1	9.6	1.3	102	0	84
JULY												
10...	1200	E2360	2.5	430	50	29	4.7	4.3	1.2	91	0	75
AUG.												
07...	1430	E1240	.3	510	80	39	6.7	13	1.5	115	0	94
SEP.												
05...	1230	E981	.5	850	130	40	6.8	15	1.7	114	0	94
18...	1530	E1250	.2	890	90	40	6.7	17	.5	112	0	92

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	FIXED NON-FILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT.												
11...	36	18	.1	.59	.06	.62	.14	.09	186	18	13	215
24...	37	18	.5	.94	.01	.56	.14	.09	189	15	13	208
NOV.												
08...	31	11	.1	.50	.03	.46	.12	.07	157	19	14	178
28...	28	8.2	.0	.62	.03	.48	.12	.04	130	61	53	200
DEC.												
12...	24	9.3	.0	.74	.08	.21	.08	.03	118	21	18	142
JAN.												
03...	22	7.5	.0	.55	.02	.38	.13	.02	110	64	58	175
16...	26	13	.4	.93	.02	.31	.06	.07	149	4	4	160
FEB.												
06...	19	11	.2	.80	.05	1.3	.06	.04	113	34	29	159
21...	24	12	.2	1.3	.37	.17	.08	.05	135	3	0	139
MAR.												
06...	23	15	.3	1.4	.01	.32	.14	.08	138	22	16	167
21...	18	7.0	.0	.90	.00	.63	.08	.03	101	42	35	157
APR.												
03...	25	7.0	.2	.91	.01	.49	.16	.04	120	111	101	227
16...	19	9.0	.2	.86	.01	.52	.08	.04	122	25	21	162
MAY												
08...	24	14	.2	.78	.13	.50	.10	.04	147	28	21	181
14...	22	9.5	.1	.75	.00	1.2	.07	.03	125	17	15	187
30...	17	7.5	.2	.59	.09	.26	.07	.01	116	17	13	149
JUNE												
11...	22	11	.3	.48	.12	.54	.08	.03	140	15	12	215
27...	15	13	.2	.73	.19	.20	.11	.04	132	26	22	185
JULY												
10...	16	8.5	.2	.41	.00	.47	.07	.04	114	11	10	146
AUG.												
07...	29	19	.2	1.1	.00	.25	.09	.05	171	17	13	194
SEP.												
05...	31	21	.3	1.0	.00	.14	.11	.05	177	22	19	212
18...	34	21	.3	1.0	.00	.27	.11	.04	180	17	15	214

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
11...	173	140	40	327	8.1	12	.0	--	--	--	--
24...	171	140	38	324	7.6	11	.0	0	0	6	<.5
NOV.											
08...	147	120	34	271	7.7	13	.0	--	--	--	--
28...	166	97	26	209	7.4	10	.0	--	--	--	--
DEC.											
12...	116	86	22	195	7.2	5	.0	--	--	--	--
JAN.											
03...	151	83	22	185	7.5	0	.0	--	--	--	--
16...	129	110	32	256	8.0	5	.0	--	--	--	--
FEB.											
06...	134	83	26	201	7.5	6	.0	--	--	--	--
21...	124	98	28	234	7.6	4	.0	--	--	--	--
MAR.											
06...	149	96	25	239	7.2	5	.0	--	--	--	--
21...	12	78	23	176	7.5	8	.0	--	--	--	--
APR.											
03...	107	89	23	186	7.8	14	.0	--	--	--	--
16...	124	97	25	216	7.7	7	.0	0	0	6	<.5
MAY											
08...	143	120	31	250	7.7	9	.0	--	--	--	--
14...	133	97	23	222	7.0	9	.0	--	--	--	--
30...	130	92	18	204	7.7	8	.0	0	0	10	10
JUNE											
11...	140	110	22	249	7.8	11	.0	0	10	11	3.1
27...	98	110	22	246	7.5	13	.0	--	--	--	--
JULY											
10...	108	92	17	210	7.7	12	.0	0	0	2	3.5
AUG.											
07...	165	130	31	302	7.3	11	.0	--	--	--	--
SEP.											
05...	177	130	34	318	7.3	13	.0	--	--	--	--
18...	201	130	36	331	7.4	11	.0	2	10	1	2.5

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.
(International Hydrological Decade River Station)

LOCATION .--Lat 42°44'07", long 73°41'25", Albany-Rensselaer County line, right channel at bridge on road between Green Island and Troy, at Starbuck Island, 0.5 mi (0.8 km) upstream from bridge on State Highway 7, and 1.2 mi (1.9 km) downstream from gaging station at Troy lock and dam.

DRAINAGE AREA.--8,090 mi^2 (20,953 km^2), approximately (including that above site of former auxiliary gage).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1973.
Water temperatures: October 1954 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 26.5°C Aug. 10-15, 18-20; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 28.5°C July 27-30, 1963; minimum, freezing point on many days during winter periods.

REMARKS.--Water temperature measurements made at Troy lock and dam, lat 42°45'08", long 73°41'22". Prior to October 1968 sampling site at bridge on State Highway 7. Stream frozen or no water temperature record Dec. 17 to April 14.

COOPERATION.--Water temperature record furnished by the Corps of Engineers.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
26...	1415	E6960	3.6	340	30	21	3.7	7.2	.9	57	0
NOV.											
21...	0945	E26200	5.0	580	40	20	3.9	5.8	1.0	60	0
DEC.											
19...	0930	E18600	5.6	120	0	16	3.2	4.6	.6	45	0
JAN.											
16...	0900	E13500	5.5	250	0	34	5.5	8.7	1.1	98	0
FEB.											
20...	1400	E13400	6.1	240	20	14	2.9	5.8	.5	39	0
MAR.											
23...	0815	E24100	5.2	380	40	13	2.8	3.7	.5	34	0
APR.											
24...	0900	E18000	4.5	360	30	15	2.8	3.7	.5	44	0
MAY											
22...	0830	E59400	4.6	2000	50	14	2.9	2.8	.6	44	0
JUNE											
18...	1530	E7200	3.4	460	60	20	3.7	4.9	.7	56	0
JULY											
24...	0915	E3200	3.1	270	20	17	3.1	5.9	.9	51	0
AUG.											
22...	1330	E5070	2.9	220	50	21	4.4	7.8	1.0	60	0
SEP.											
18...	1430	E5400	2.9	320	60	18	3.6	8.4	.4	49	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)
OCT.											
26...	47	22	10	.1	.53	.03	.86	.06	.03	100	6
NOV.											
21...	49	18	8.1	.0	.70	.03	.31	.06	.02	95	27
DEC.											
19...	37	15	7.5	.0	.55	.00	.37	.01	.01	77	11
JAN.											
16...	80	26	12	.1	.91	.01	.49	.09	.06	146	5
FEB.											
20...	32	12	8.1	.0	.60	.02	.19	.03	.02	71	6
MAR.											
23...	28	13	5.9	.0	.63	.00	.18	.03	.00	64	8
APR.											
24...	36	13	7.0	.1	.42	.03	.28	.02	.01	70	10
MAY											
22...	36	12	3.8	.3	.39	.01	.55	.07	.01	65	50
JUNE											
18...	46	15	7.3	.1	.48	.12	.06	.04	.01	85	9
JULY											
24...	42	14	6.4	.2	.78	.00	.25	.04	.02	79	6
AUG.											
22...	49	20	11	.1	.80	.00	.24	.04	.02	101	25
SEP.											
18...	40	19	10	.3	.92	.00	.27	.04	.01	91	7

E Estimated value.

CONTINUED NEXT PAGE

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.--Continued
(International Hydrological Decade River Station)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT. 26...	4	117	84	68	21	338	5.4	15.0	8.0	79
NOV. 21...	12	126	91	66	17	166	7.7	7.0	11.0	88
DEC. 19...	8	92	65	53	16	128	7.2	.0	11.4	84
JAN. 16...	4	146	125	100	20	252	7.4	.0	10.4	82
FEB. 20...	2	80	73	47	15	122	7.2	.0	11.4	90
MAR. 23...	2	85	57	44	16	108	7.1	2.0	10.1	78
APR. 24...	9	80	59	49	13	120	7.3	13.5	7.9	79
MAY 22...	42	137	121	47	11	112	7.4	10.0	8.7	82
JUNE 18...	7	127	87	65	19	152	7.6	20.0	8.2	89
JULY 24...	6	104	76	55	13	138	7.7	24.5	7.8	93
AUG. 22...	5	116	92	71	21	176	7.2	25.0	7.9	94
SEP. 18...	3	109	85	60	20	165	7.6	19.0	9.0	97

DATE	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 26...	17	B11000	--	.0	--	--	--	--	--	--
NOV. 21...	9	3800	B200	.0	0	0	--	5	--	<.5
DEC. 19...	5	5300	B900	.0	--	--	--	--	--	--
JAN. 16...	9	5600	B1900	.0	--	--	--	--	--	--
FEB. 20...	7	B10000	2800	.0	--	--	--	--	--	--
MAR. 23...	10	6900	420	.0	0	0	360	2	40	<.5
APR. 24...	11	65000	B300	.0	--	--	--	--	--	--
MAY 22...	17	410000	B1800	.0	--	--	--	--	--	--
JUNE 18...	11	230000	1200	.0	--	--	--	--	--	--
JULY 24...	11	60000	B6900	.0	--	--	--	--	--	--
AUG. 22...	12	54000	2100	.0	--	--	--	--	--	--
SEP. 18...	12	94000	5000	.0	0	10	370	5	80	<.5

RADIOCHEMICAL ANALYSES

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
APR. 24...	1.0	.8	2.3	.7	1.9	.6	.03	.06
SEP. 18...	<.8	<.4	2.8	.5	2.2	.4	.02	.05

B Results based on colony count outside the acceptable range (non-ideal colony count).

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.--Continued
(International Hydrological Decade River Station)

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.5	9.0	1.5	---	---	---	---	13.5	15.0	24.0	26.0	26.0
2	15.5	9.0	1.5	---	---	---	---	14.0	16.0	23.5	26.0	26.0
3	15.5	9.0	1.5	---	---	---	---	14.0	16.5	23.5	25.5	26.0
4	15.5	9.0	1.5	---	---	---	---	14.0	16.5	23.5	26.0	26.0
5	15.5	8.0	1.5	---	---	---	---	14.0	18.0	23.5	25.5	26.0
6	15.5	8.0	1.5	---	---	---	---	13.0	18.5	24.0	25.5	26.0
7	15.5	8.0	1.5	---	---	---	---	12.0	19.0	24.0	25.5	25.5
8	15.5	8.0	1.5	---	---	---	---	13.5	19.0	24.0	25.5	25.0
9	14.5	8.0	1.0	---	---	---	---	14.0	20.0	24.5	25.5	24.0
10	13.5	8.0	1.0	---	---	---	---	13.5	20.5	24.5	26.5	22.0
11	13.0	7.0	1.0	---	---	---	---	13.5	21.0	24.5	26.5	24.0
12	13.0	7.0	1.0	---	---	---	---	13.5	23.0	24.5	26.5	24.0
13	13.0	7.0	1.0	---	---	---	---	13.0	23.5	24.5	26.5	23.0
14	13.0	6.0	1.0	---	---	---	---	13.0	23.5	24.5	26.5	22.0
15	12.0	5.5	0.0	---	---	---	10.0	13.0	22.0	23.5	26.5	20.0
16	11.5	5.0	0.0	---	---	---	10.0	13.5	23.0	24.0	26.0	18.5
17	11.5	5.0	---	---	---	---	10.0	13.5	22.0	23.5	26.0	18.5
18	11.0	5.0	---	---	---	---	10.0	13.5	23.5	24.0	26.5	18.5
19	11.0	4.5	---	---	---	---	10.0	11.5	20.0	24.0	26.5	18.5
20	11.0	4.5	---	---	---	---	11.0	11.0	21.0	24.5	26.5	18.0
21	11.0	3.5	---	---	---	---	11.5	12.0	23.5	24.5	26.0	17.0
22	11.0	3.5	---	---	---	---	13.0	13.0	23.5	24.5	26.0	18.0
23	11.0	2.0	---	---	---	---	13.0	13.0	22.0	24.5	24.0	18.0
24	11.5	1.5	---	---	---	---	13.5	13.0	22.0	24.5	24.0	18.0
25	10.0	1.5	---	---	---	---	13.0	13.5	22.0	25.5	24.5	17.0
26	10.0	3.5	---	---	---	---	13.0	13.5	23.5	25.5	24.5	17.0
27	10.0	2.0	---	---	---	---	13.0	13.5	23.5	25.5	24.5	16.5
28	9.5	2.0	---	---	---	---	13.0	13.5	24.0	25.5	24.0	16.5
29	9.5	1.5	---	---	---	---	13.5	13.5	24.0	25.5	24.5	18.0
30	9.5	1.5	---	---	---	---	13.5	14.5	23.5	25.5	25.5	18.0
31	9.0	---	---	---	---	---	---	14.5	---	25.5	26.0	---
AVERAGE	12.5	5.5	---	---	---	---	---	13.0	21.0	24.5	25.5	21.0

01359560 HUDSON RIVER AT GLENMONT, N.Y.

LOCATION.--Lat 42°35'43", long 73°45'43", Albany County, at Niagara Mohawk Glenmont Power Station (intake), 0.2 mi (0.3 km) downstream from lower mouth of Normans Kill and 0.9 mi (1.4 km) southeast of Glenmont.

DRAINAGE AREA.--8,476 mi² (21,953 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
04...	1025	2.2	310	10	28	5.3	11	1.3	75	0	62	28
16...	1015	4.0	380	50	21	4.1	8.2	1.1	56	0	48	24
31...	1000	3.2	780	90	33	5.7	18	1.4	89	0	73	27
NOV.												
13...	0930	5.1	1400	70	23	3.8	4.2	1.7	62	0	51	26
DEC.												
05...	1000	5.0	480	20	23	4.3	8.0	1.0	65	0	53	22
18...	1000	5.5	330	50	25	4.4	6.6	.9	67	0	55	20
JAN.												
09...	1000	5.6	440	70	21	3.8	6.0	.7	54	0	44	19
23...	1000	4.6	1200	70	22	3.9	6.2	1.4	60	0	49	21
FEB.												
06...	0930	4.3	1100	80	20	3.4	7.4	1.1	54	0	44	16
13...	1000	5.6	570	160	20	3.6	5.8	.8	53	0	43	18
26...	1000	5.6	260	100	20	3.7	8.1	.8	55	0	45	19
MAR.												
13...	0950	4.7	960	40	21	3.8	5.1	1.0	61	0	50	18
27...	1000	5.0	950	90	22	3.7	6.0	.9	60	0	49	18
APR.												
10...	1015	4.7	870	60	18	3.2	4.2	.8	51	0	42	16
24...	1000	4.4	350	30	19	3.1	4.5	.7	52	0	43	15
JUNE												
05...	1000	4.2	420	300	19	3.4	4.9	.8	53	0	43	16
18...	1700	3.5	320	30	21	3.9	5.8	.9	58	0	48	14
JULY												
02...	0945	4.3	2090	90	24	3.7	5.6	2.1	68	0	56	16
17...	1500	3.1	390	60	21	3.9	6.2	1.0	61	0	50	13
30...	1010	2.9	500	180	22	4.2	7.3	1.0	64	0	52	18
AUG.												
14...	1445	3.3	620	80	22	4.2	8.8	1.2	60	0	49	19
28...	0940	3.0	260	60	23	4.5	9.2	1.2	62	0	51	23
SEP.												
09...	1120	2.8	280	60	23	4.2	10	1.4	64	0	52	21
27...	1010	3.3	200	50	21	4.9	14	1.2	64	0	52	22

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
04...	15	.2	.61	.08	.70	.14	.11	131	7	3	151
16...	12	.1	.53	.02	.57	.11	.08	105	5	1	129
31...	16	.0	.68	.09	.72	.14	.08	144	16	13	167
NOV.											
13...	6.8	.0	.50	.01	.48	.12	.03	103	36	32	138
DEC.											
05...	12	.1	.53	.00	.38	.04	.03	110	10	6	137
18...	9.5	.1	1.0	.00	1.1	.06	.03	110	8	5	126
JAN.											
09...	9.5	.0	.77	.08	.32	.05	.03	96	13	11	113
23...	9.0	.1	1.0	.00	.38	.12	.04	102	32	28	135
FEB.											
06...	11	.0	.65	.04	.24	.07	.02	93	28	24	131
13...	8.5	.0	1.0	.00	.36	.06	.02	93	10	7	114
26...	12	.4	.68	.01	.36	.07	.04	100	6	2	114
MAR.											
13...	7.9	.1	.68	.00	.44	.08	.05	95	24	19	117
27...	10	.0	.94	.00	.29	.06	.02	100	14	8	122
APR.											
10...	5.5	.3	.57	.01	.58	.09	.04	81	24	20	111
24...	8.1	.3	1.0	.07	.28	.05	.03	86	6	2	101
JUNE											
05...	7.2	.2	.55	.12	.58	.05	.02	85	6	2	118
18...	8.7	.1	.57	.23	.10	.05	.03	89	7	3	116
JULY											
02...	8.2	.2	1.2	.10	.31	.12	.04	104	48	43	177
17...	9.2	.3	.65	.01	.30	.06	.04	91	8	6	121
30...	10	.2	.89	.00	.36	.07	.04	101	6	3	137
AUG.											
14...	13	.3	1.1	.00	.16	.08	.05	106	14	11	129
28...	15	.4	1.1	.00	.27	.08	.07	115	3	2	131
SEP.											
09...	13	.2	1.0	.01	.28	.11	.07	112	9	8	125
27...	17	.3	1.2	.00	.24	.07	.05	123	2	0	135

CONTINUED NEXT PAGE

01359560 HUDSON RIVER AT GLENMONT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
04...	123	92	30	230	7.4	16	.0	--	--	--	--
16...	84	69	23	181	7.6	18	.0	7	0	10	<.5
31...	139	110	33	251	7.5	7	.0	0	30	14	<.5
NOV.											
13...	112	73	22	162	7.2	13	.0	10	0	0	1.0
DEC.											
05...	103	75	22	191	7.4	13	.0	--	--	--	--
18...	94	81	26	190	7.2	7	.0	--	--	--	--
JAN.											
09...	84	68	24	163	7.3	8	.0	--	--	--	--
23...	114	71	22	174	7.2	11	.0	--	--	--	--
FEB.											
06...	113	64	20	164	7.4	8	.0	--	--	--	--
13...	90	65	21	158	7.4	--	.0	--	--	--	--
26...	98	65	20	174	7.5	8	.0	--	--	--	--
MAR.											
13...	104	68	18	162	7.3	5	.0	--	--	--	--
27...	89	70	21	167	7.3	9	.0	--	--	--	--
APR.											
10...	85	58	16	138	7.4	7	.0	--	--	--	--
24...	80	60	18	142	7.5	9	.0	--	--	--	--
JUNE											
05...	85	61	18	152	7.0	9	.0	--	--	--	--
18...	88	69	21	162	7.5	8	.0	0	0	0	6.6
JULY											
02...	133	75	19	184	7.4	19	.0	0	0	30	4.4
17...	90	69	18	168	7.1	8	.0	--	--	--	--
30...	97	72	20	183	6.9	12	.0	--	--	--	--
AUG.											
14...	107	72	23	191	6.9	14	.0	--	--	--	--
28...	97	76	25	205	6.8	10	.0	--	--	--	--
SEP.											
09...	109	75	22	207	7.0	9	.0	--	--	--	--
27...	108	73	20	219	7.0	11	.0	--	--	--	--

01359803 HUDSON RIVER AT COEYMANS, N.Y.

LOCATION.--Lat 42°28'57", long 73°47'20", Albany County, at dock at Powell and Minnock Brick Works, 0.4 mi (0.6 km) upstream from Coeymans Creek, and 0.4 mi (0.6 km) northeast of Coeymans.

DRAINAGE AREA.--8,595 mi² (22,261 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
16...	1100	4.0	560	40	26	5.0	11	1.6	70	0	57	27
NOV.												
13...	1030	5.1	1500	90	23	3.9	5.8	1.9	61	0	50	27
JAN.												
23...	1045	4.5	1200	0	22	3.8	5.9	1.4	58	0	48	20
MAR.												
27...	1100	5.1	530	70	22	3.8	7.3	.8	61	0	50	19
APR.												
24...	1055	4.3	360	60	22	3.3	5.0	.7	53	0	43	16
JUNE												
18...	1130	2.9	320	30	21	4.3	6.5	1.0	65	0	53	15
JULY												
17...	1400	3.7	390	100	20	4.2	7.5	1.0	59	0	48	14
AUG.												
14...	1410	3.0	170	150	24	4.8	10	1.5	68	0	56	20
SEP.												
11...	1355	2.1	140	70	24	4.4	12	1.6	66	0	54	23

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
16...	17	.2	.48	.02	.52	.12	.09	129	9	4	146
NOV.											
13...	8.1	.0	.49	.01	.67	.12	.04	108	58	38	155
JAN.											
23...	6.9	.1	.95	.00	.26	.09	.04	98	38	33	130
MAR.											
27...	12	.2	.93	.00	.29	.07	.03	105	15	12	127
APR.											
24...	6.6	.3	.50	.09	.24	.04	.02	89	5	1	101
JUNE											
18...	8.5	.1	.53	.17	.39	.06	.02	94	10	6	118
JULY											
17...	12	.2	.68	.00	.24	.05	.03	95	9	7	151
AUG.											
14...	17	.2	1.2	.00	.31	.12	.09	120	8	5	141
SEP.											
11...	16	.3	.97	.01	.24	.11	.02	120	4	1	138

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
16...	116	86	28	218	7.3	16	.0	7	0	10	<.5
NOV.											
13...	119	73	23	169	7.3	17	.0	10	10	84	.6
JAN.											
23...	110	71	23	166	7.1	10	.0	--	--	--	--
MAR.											
27...	98	71	21	171	7.6	9	.0	--	--	--	--
APR.											
24...	78	69	25	149	7.3	8	.0	--	--	--	--
JUNE											
18...	90	70	17	175	7.6	10	.0	10	0	29	7.3
JULY											
17...	144	67	19	178	7.1	7	.0	--	--	--	--
AUG.											
14...	117	80	24	217	7.0	12	.0	--	--	--	--
SEP.											
11...	113	78	24	222	7.1	10	.0	--	--	--	--

01361450 HUDSON RIVER AT CATSKILL, N.Y.

LOCATION.--Lat 42°12'36", long 73°51'12", Greene County, at right bank at Greene County Highway Department dock, 600 ft (183 m) upstream from Catskill Creek, and 0.9 mi (1.4 km) downstream from Rip Van Winkle Bridge.

DRAINAGE AREA.--9,336 mi² (24,180 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 16...	1200	2.4	360	30	23	4.3	9.4	1.3	59	0	48	24
NOV. 13...	1130	4.8	330	40	16	2.4	4.5	1.1	34	0	28	23
DEC. 18...	1110	5.4	2000	110	25	4.1	8.0	1.1	63	0	52	22
JAN. 23...	1145	5.0	860	0	25	4.4	7.2	1.1	66	0	54	22
FEB. 06...	1100	4.4	1700	80	20	3.3	6.6	1.1	52	0	43	17
26...	1130	5.6	370	100	21	3.8	8.2	.9	56	0	46	19
MAR. 27...	1230	5.0	1200	80	20	3.4	6.0	.8	53	0	43	17
APR. 24...	1225	4.4	350	20	20	3.4	5.4	.9	57	0	47	17
JUNE 18...	1245	2.4	330	30	22	4.1	6.7	1.0	64	0	52	15
JULY 17...	1315	1.0	300	30	21	4.0	6.0	1.0	63	0	52	13
AUG. 14...	1310	.1	30	30	23	4.6	8.8	1.4	70	0	57	17
SEP. 11...	1240	.0	170	40	25	4.6	11	1.4	71	0	58	23

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT. 16...	12	.1	.75	.05	.53	.08	.06	109	8	4	130
NOV. 13...	6.0	.0	.37	.00	.20	.03	.00	76	10	9	88
DEC. 18...	10	.1	.85	.00	.48	.19	.03	111	59	50	175
JAN. 23...	9.5	.1	1.0	.00	.29	.07	.04	112	23	19	139
FEB. 06...	9.5	.0	.77	.08	.21	.08	.02	92	44	38	136
26...	12	.1	.78	.01	.18	.06	.02	102	8	4	119
MAR. 27...	10	.0	.89	.00	.35	.08	.02	93	31	24	135
APR. 24...	8.5	.2	.31	.09	.27	.04	.02	90	4	0	115
JUNE 18...	10	.1	.63	.17	.29	.06	.03	96	11	8	128
JULY 17...	8.5	.3	.49	.00	.24	.04	.02	88	8	6	135
AUG. 14...	12	.2	.94	.01	.19	.05	.03	106	8	6	122
SEP. 11...	16	.3	.91	.00	.24	.06	.04	121	5	0	142

01361450 HUDSON RIVER AT CATSKILL, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPEP (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
16...	89	75	27	190	7.7	15	.0	5	0	0	<.5
NOV.											
13...	70	50	22	125	7.5	9	.0	10	0	8	<.5
DEC.											
18...	136	79	27	192	7.1	11	.0	--	--	--	--
JAN.											
23...	117	81	26	193	7.3	8	.0	--	--	--	--
FEB.											
06...	117	64	21	157	7.5	8	.0	--	--	--	--
26...	108	68	22	178	7.4	10	.0	--	--	--	--
MAR.											
27...	102	64	20	154	7.4	11	.0	--	--	--	--
APR.											
24...	92	64	17	155	7.4	8	.0	--	--	--	--
JUNE											
18...	96	72	19	176	7.5	9	.0	0	0	9	6.1
JULY											
17...	115	69	17	171	7.2	10	.0	--	--	--	--
AUG.											
14...	111	76	19	200	7.1	11	.0	--	--	--	--
SEP.											
11...	113	81	23	225	7.2	13	.0	--	--	--	--

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.
(Hydrologic bench-mark station)

LOCATION.--Lat 42°06'59", long 74°23'20", Ulster County, temperature recorder at gaging station at Shandaken, 0.5 mi (0.8 km) downstream from Bushnellsville Creek, and 1.3 mi (2.1 km) upstream from Shandaken Tunnel Outlet.

DRAINAGE AREA.--59.5 mi^2 (154 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1963 to September 1973.
Water temperatures: July 1963 to July 1968, January 1970 to September 1973.

EXTREMES.--1972-73:
Water Temperatures: Maximum, 23.5°C Aug. 29, 30, Sept. 4; minimum, freezing point on many days during January to March.

Period of record:
Water Temperatures: Maximum, 28.5°C Aug. 16, 1965; minimum, freezing point on many days during winter period.

REMARKS.--No water temperature record Nov. 28.

REVISIONS.--Revised figures for discharge and sediment discharge for water year 1972 superseding those previously published are given herewith:

DATE	TIME	DISCHARGE (CFS)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
Jan. 26, 1972	1030	107	-
Aug. 9	1105	95	.51
.	1200	95	-
Sept. 7	1215	13	.04

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT. 05...	1010	8.9	2.8	--	--	7.3	1.6	2.8	.3	21	0	17
NOV. 29...	1020	420	2.5	50	0	4.9	1.0	1.2	.4	9	0	7
DEC. 20...	1110	149	2.9	30	0	5.4	1.1	1.4	.1	10	0	8
JAN. 30...	1045	117	2.8	--	--	5.5	1.1	1.5	.2	8	0	7
FEB. 28...	1020	62	2.8	70	0	6.5	1.1	2.0	.2	13	0	11
MAR. 26...	1045	210	2.5	90	0	5.5	1.1	1.8	.2	9	0	7
APR. 24...	1030	163	2.4	150	0	6.6	1.0	1.3	.2	10	0	8
MAY 30...	1030	246	2.8	60	0	4.7	1.0	1.2	.2	11	0	9
JULY 17...	1040	58	2.8	70	0	5.2	1.2	1.7	.3	16	0	13
AUG. 15...	1045	29	3.0	180	20	6.5	1.4	2.1	.5	19	0	16
SEP. 11...	1040	13	2.9	0	0	6.5	1.4	2.5	.4	18	0	15

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT. 05...	7.1	4.2	.1	.02	.00	--	36	25	8	66	7.4
NOV. 29...	8.1	1.5	.0	.30	--	--	25	16	9	42	7.0
DEC. 20...	8.0	1.6	.0	.20	.00	--	26	18	10	42	7.0
JAN. 30...	8.3	2.0	.1	.30	.00	30	27	18	12	45	6.8
FEB. 28...	8.2	3.0	.0	.20	.00	33	31	21	10	51	6.5
MAR. 26...	8.0	3.1	.0	.30	.00	29	28	18	11	44	6.8
APR. 24...	8.0	1.7	.2	.30	.00	28	28	21	12	44	6.4
MAY 30...	7.5	1.0	.3	.19	.01	22	25	16	7	41	6.9
JULY 17...	6.5	2.0	.2	.02	.00	32	28	18	5	50	7.4
AUG. 15...	5.5	2.1	.1	.17	.00	36	31	22	6	57	7.0
SEP. 11...	6.5	2.7	.1	.34	.02	30	33	22	7	63	7.3

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
05...	10.5	9.8	90	--	130	6	--	--	--	--	--
NOV.											
29...	3.0	11.0	84	.6	230	17	--	--	--	--	--
DEC.											
20...	2.5	10.8	81	.8	--	--	--	0	--	--	--
JAN.											
30...	.0	11.4	81	.2	B10	80	--	--	--	--	--
FEB.											
28...	.0	13.8	98	1.1	B17	80	--	--	--	--	--
MAR.											
26...	4.5	12.6	100	--	78	84	0	1	--	--	<.5
APR.											
24...	9.0	11.4	101	.5	104	<1	--	--	--	--	--
MAY											
30...	13.0	10.8	105	1.7	130	5	--	--	--	--	--
JULY											
17...	16.0	9.6	99	.1	70	18	--	--	--	--	--
AUG.											
15...	18.0	9.6	101	1.2	220	B150	--	--	--	--	--
SEP.											
11...	15.0	10.4	102	.1	220	8	0	--	0	5	<.5

RADIOCHEMICAL ANALYSIS

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
NOV.								
29...	<.4	<.4	1.2	<.4	1.0	<.4	.04	.02

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT.					
05...	1130	10.5	8.9	4	.10
NOV.					
29...	1045	3.0	420	2	2.3
DEC.					
20...	1230	2.5	170	1	.46
JAN.					
30...	1110	.0	117	4	1.3
FEB.					
28...	1140	.0	62	5	.84
MAR.					
26...	1200	4.5	210	2	1.1
APR.					
24...	1230	9.0	163	4	1.8
MAY					
30...	1145	13.0	246	1	.66
JULY					
17...	1040	16.0	58	4	.71
AUG.					
15...	1045	18.0	29	3	.18
15...	1330	17.5	120	12	3.9
SEP.					
11...	1210	15.0	13	1	.04

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	10.0	6.5	6.5	3.5	2.0	4.5	3.5	0.0	0.0	1.0	0.0
2	12.5	9.0	7.5	6.5	4.0	3.0	4.0	3.0	0.5	0.0	2.5	1.0
3	12.5	9.5	8.0	7.5	4.5	3.5	3.0	3.0	1.5	0.5	2.5	2.0
4	13.5	10.0	8.0	7.5	4.0	2.5	3.0	2.5	1.5	1.5	4.0	2.0
5	14.0	12.5	7.5	7.0	4.0	2.5	3.0	3.0	3.0	1.5	4.5	3.0
6	14.5	13.0	7.0	6.0	6.0	4.0	3.0	1.0	2.0	1.0	4.5	3.5
7	14.0	13.0	6.5	6.0	5.0	3.0	1.0	0.5	1.5	1.5	4.5	3.5
8	13.0	11.5	7.5	6.5	3.5	3.0	0.5	0.5	2.0	1.5	4.5	4.0
9	12.0	11.0	7.5	7.0	4.5	3.5	0.5	0.5	1.5	0.5	4.5	3.0
10	11.0	9.5	7.5	7.0	4.5	4.5	0.5	0.5	0.5	0.5	4.0	3.0
11	11.0	8.5	7.5	6.5	4.5	3.5	0.5	0.5	0.0	0.0	4.0	3.0
12	11.0	10.5	6.5	6.5	3.5	3.0	0.5	0.5	0.0	0.0	5.0	3.5
13	11.0	10.0	6.5	6.5	4.0	3.0	0.5	0.5	0.0	0.0	6.0	4.5
14	10.5	8.5	6.5	5.5	4.0	3.5	0.5	0.5	0.0	0.0	5.0	4.0
15	10.5	9.0	5.5	5.5	3.5	2.0	0.5	0.5	0.0	0.0	4.5	4.0
16	9.0	8.5	5.5	5.0	2.0	2.0	1.0	0.5	0.0	0.0	6.0	4.5
17	10.0	9.0	5.0	5.0	2.0	1.0	1.5	1.0	0.0	0.0	6.5	6.0
18	9.0	7.5	5.0	5.0	1.0	1.0	2.0	1.5	0.0	0.0	6.0	3.5
19	8.0	7.5	5.0	5.0	2.0	1.0	2.5	2.0	0.0	0.0	3.5	3.0
20	7.5	5.5	5.0	5.0	2.5	2.0	2.5	1.5	0.0	0.0	3.5	3.0
21	6.0	5.5	5.0	5.0	2.5	2.5	1.5	0.5	0.5	0.0	4.0	3.0
22	7.0	6.0	5.0	3.5	3.0	2.5	1.0	0.5	1.0	0.5	4.0	3.5
23	8.5	7.0	3.5	2.5	3.5	3.0	2.0	1.0	0.5	0.0	4.0	2.5
24	8.5	8.5	3.0	2.5	3.5	3.5	2.0	2.0	0.0	0.0	4.5	3.0
25	9.5	8.0	3.5	3.0	3.5	3.5	2.0	1.0	0.0	0.0	4.5	4.0
26	8.0	7.0	4.0	3.5	3.5	3.5	2.5	1.5	0.5	0.0	5.0	3.5
27	8.0	6.5	4.0	4.0	3.5	2.5	2.5	2.0	0.5	0.0	5.5	4.5
28	9.0	7.0	---	---	3.0	2.0	2.5	1.5	0.0	0.0	5.5	4.0
29	9.5	9.0	4.0	3.5	2.0	1.0	1.5	0.0	---	---	5.5	4.5
30	9.5	7.5	3.5	2.0	2.5	1.5	0.0	0.0	---	---	5.5	5.0
31	7.5	6.0	---	---	3.5	2.5	0.0	0.0	---	---	8.0	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	12.5	8.5	15.0	11.0	13.0	12.5	18.0	17.5	22.5	19.0
2	7.5	7.0	12.0	10.0	16.5	11.5	13.5	12.5	17.5	17.5	23.0	20.0
3	7.0	7.0	12.0	11.0	16.0	10.0	14.0	13.0	17.5	17.0	23.0	20.5
4	7.0	6.0	11.5	10.0	14.5	12.0	14.5	13.5	19.0	17.5	23.5	20.5
5	6.5	6.0	10.5	8.5	17.0	12.0	15.0	14.0	19.0	18.0	23.0	20.0
6	6.5	6.0	11.5	8.5	17.0	12.5	15.0	13.5	19.0	18.0	21.5	19.5
7	8.0	6.0	13.5	8.5	14.0	13.0	15.5	13.5	19.5	18.5	19.5	16.5
8	8.5	7.5	11.0	9.5	13.5	12.0	16.5	14.5	20.0	19.0	18.0	15.5
9	8.0	6.0	10.5	9.5	13.5	12.5	17.0	15.5	20.5	19.5	17.0	14.5
10	8.0	7.0	15.0	10.5	14.0	12.0	16.5	15.0	21.0	20.5	18.0	12.0
11	7.0	6.5	14.0	11.5	15.0	13.0	16.0	15.5	21.0	20.5	17.5	13.5
12	8.0	5.5	11.5	10.5	15.0	14.0	16.0	14.0	20.5	19.5	17.5	14.0
13	8.5	5.0	11.0	10.0	15.0	13.5	15.0	13.0	19.5	19.0	17.5	12.5
14	10.0	5.0	11.5	9.5	14.0	12.5	17.0	15.0	19.5	18.5	15.5	14.0
15	10.5	5.5	12.5	9.5	14.0	12.5	17.0	16.0	18.5	17.5	15.5	14.0
16	12.0	6.0	14.5	9.0	13.0	12.5	16.0	14.5	18.5	17.0	15.0	13.0
17	11.0	8.5	13.0	9.0	14.5	12.5	16.0	15.0	20.0	17.0	16.5	12.5
18	12.0	9.5	10.0	9.0	14.5	12.0	17.0	15.5	19.5	17.0	15.5	14.0
19	11.5	9.0	11.5	8.5	14.0	11.5	17.0	16.0	19.5	16.5	15.5	11.5
20	13.5	9.0	10.0	9.0	15.0	13.5	17.0	16.0	21.0	17.0	14.5	12.0
21	12.0	8.5	9.5	9.5	15.5	14.0	16.5	16.0	19.5	17.0	14.5	11.0
22	14.5	9.5	12.0	9.5	15.0	14.5	17.0	15.5	19.0	16.5	13.0	10.5
23	13.0	11.0	10.5	9.0	15.0	14.0	18.0	16.5	19.0	14.5	16.5	11.5
24	12.0	9.0	12.5	10.0	15.0	14.5	18.5	17.0	19.0	16.0	16.0	14.5
25	12.0	8.5	13.0	10.5	15.0	14.5	18.5	17.5	20.0	16.5	15.0	13.5
26	10.5	9.0	13.0	10.5	16.5	15.0	18.5	17.5	21.0	17.5	16.5	13.0
27	9.0	8.5	12.0	10.5	16.5	16.0	18.5	17.5	20.5	18.5	17.0	13.0
28	9.0	8.5	11.5	10.5	16.5	16.0	20.0	18.0	23.0	19.0	17.0	15.5
29	8.5	7.5	14.0	11.5	16.5	14.0	20.0	19.0	23.5	20.5	15.5	13.5
30	12.0	7.0	13.5	11.5	14.0	13.0	19.0	18.0	23.5	20.5	15.0	12.0
31	---	---	14.0	12.0	---	---	19.0	18.0	23.0	20.0	---	---

01364501 ESOPUS CREEK AT SAUGERTIES, N.Y.

LOCATION.--Lat 42°04'16", long 73°57'02", Ulster County, at bridge on U.S. Highway 9W in Saugerties, 300 ft (91 m) upstream from dam, 1.3 mi (2.1 km) upstream from mouth, and 3.2 mi (5.1 km) downstream from gaging station (01364500) at Mount Marion.

DRAINAGE AREA.--425 mi² (1,101 km²).

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JAN. 24...	1140	E1600	3.4	1100	130	12	2.0	6.6	.8	24	0	20
APR. 24...	1315	E321	1.3	370	120	16	2.1	6.3	.7	34	0	28
JUNE 18...	1350	E116	2.0	370	100	13	2.0	6.0	.7	32	0	26
JULY 17...	1230	E110	2.2	210	80	17	2.8	9.4	.8	43	0	35
AUG. 14...	1220	E113	3.5	10	30	18	2.9	10	1.2	49	0	40
SEP. 11...	1155	E40	.3	300	170	27	4.4	19	2.2	70	0	57

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
JAN. 24...	16	9.5	.0	.85	.00	.19	.07	.00	66	30	24	99
APR. 24...	16	10	.2	.29	.02	.25	.01	.00	71	4	1	86
JUNE 18...	11	9.5	.1	.45	.04	.10	.03	.01	62	7	3	86
JULY 17...	15	15	.1	.55	.00	.20	.03	.00	86	7	4	120
AUG. 14...	17	15	.2	.59	.00	.08	.02	.01	95	6	4	111
SEP. 11...	24	26	.3	.77	.01	.27	.03	.03	141	5	0	168

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN. 24...	86	38	19	119	7.0	6	.0	--	--	--	--
APR. 24...	69	49	21	126	7.1	4	.0	--	--	--	--
JUNE 18...	60	41	14	118	7.4	6	.0	20	0	6	5.1
JULY 17...	100	54	19	165	7.2	5	.0	--	--	--	--
AUG. 14...	98	57	17	175	7.3	8	.0	--	--	--	--
SEP. 11...	138	86	28	275	7.1	11	.0	--	--	--	--

E Estimated value.

01364950 HUDSON RIVER AT KINGSTON POINT, N.Y.

LOCATION.--Lat 41°55'40", long 73°57'44", Ulster County, at pier at Kingston Point in Kingston and 0.6 mi (1.0 km) upstream from Rondout Creek.

DRAINAGE AREA.--10,515 mi² (27,234 km²).

PERIOD OF RECORD.--Chemical analyses: January to September 1973.
Water temperatures: July 1959 to March 1966.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JAN. 24...	1300	5.2	490	60	23	4.1	7.1	1.1	61	0	50	20
APR. 24...	1430	4.3	340	0	22	3.6	5.6	1.0	60	0	49	18
JUNE 18...	1435	1.5	510	30	22	4.1	5.7	.9	65	0	53	14
JULY 17...	1050	1.5	840	100	22	5.4	5.5	1.5	69	0	57	14
AUG. 14...	1140	.6	210	40	23	4.5	6.6	1.5	69	0	57	15
SEP. 11...	1100	.2	500	60	24	4.5	9.5	.8	73	0	60	20

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
JAN. 24...	9.7	.0	.99	.00	.31	.05	.02	105	18	13	126
APR. 24...	7.9	.2	.31	.07	.23	.04	.02	94	6	3	112
JUNE 18...	6.2	.1	.55	.05	.23	.06	.02	91	14	10	124
JULY 17...	7.4	.2	.60	.00	.25	.07	.03	94	26	22	154
AUG. 14...	9.5	.2	.71	.00	.30	.07	.04	98	15	12	119
SEP. 11...	13	.2	.83	.00	.24	.07	.04	119	12	6	149

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN. 24...	104	74	24	185	7.5	29	.0	--	--	--	--
APR. 24...	79	70	21	161	7.5	7	.0	--	--	--	--
JUNE 18...	96	72	19	169	7.7	9	.0	20	0	11	5.1
JULY 17...	119	77	21	178	7.4	13	.0	--	--	--	--
AUG. 14...	108	76	19	182	7.2	11	.0	--	--	--	--
SEP. 11...	105	78	19	216	7.2	10	.0	--	--	--	--

01368000 WALLKILL RIVER NEAR UNIONVILLE, N.Y. (OWEN, N.J.)

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey, at gaging station at bridge on the Bassetts Bridge Road, 0.6 mi (1.0 km) upstream from small tributary, 2.0 mi (3.2 km) south of the New York-New Jersey state line, and 3.0 mi (4.8 km) south of Unionville.

DRAINAGE AREA.--140 mi^2 (363 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 26...	1330	E47	--	--	--	--	--	--	--	--	--	--
DEC. 20...	1400	E300	--	--	--	--	--	--	--	--	--	--
FEB. 14...	1500	E250	--	--	--	--	--	--	--	--	--	--
APR. 05...	1100	E995	5.4	430	--	20	--	22	5.6	7.4	1.2	59
17...	1130	E315	--	--	--	--	--	--	--	--	--	--
MAY 22...	1330	E623	--	--	--	--	--	--	--	--	--	--
JUNE 20...	0945	E133	--	--	--	--	--	--	--	--	--	--
JULY 11...	0830	E161	--	--	--	--	--	--	--	--	--	--
AUG. 16...	0715	E230	7.5	220	220	70	70	37	11	10	2.4	7
SEP. 25...	0745	E72	--	--	--	--	--	--	--	--	--	--

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 26...	--	--	--	--	--	--	--	--	--	--	--
DEC. 20...	--	--	--	--	--	--	.07	.68	.75	--	.02
FEB. 14...	--	--	--	--	--	--	.10	.27	.37	--	.04
APR. 05...	0	48	23	13	.70	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	--	--	--	--	.49	.00	.04	--	.37	--	.04
JUNE 20...	--	--	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--	--	--
AUG. 16...	0	6	25	18	.71	.04	.29	.36	.65	1.4	.16
SEP. 25...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT. 26...	--	--	--	380	8.1	9.9	10.4	2.7	340	54	40
DEC. 20...	.02	--	--	380	7.4	1.0	12.4	--	--	--	--
FEB. 14...	.02	--	--	343	7.6	.8	13.2	.8	30	2	0
APR. 05...	--	78	30	185	7.4	7.0	--	--	--	--	--
17...	--	--	--	267	7.5	11.8	8.8	1.1	334	--	85
MAY 22...	.00	--	--	225	7.6	15.2	9.0	.8	940	150	10
JUNE 20...	--	--	--	336	7.5	18.9	6.2	1.1	1433	269	276
JULY 11...	--	--	--	314	8.4	23.4	4.8	1.2	5150	215	710
AUG. 16...	.06	140	130	319	7.4	20.3	5.8	2.1	10000	--	10000
SEP. 25...	--	--	--	360	7.6	15.1	7.4	1.6	11500	--	200

E Estimated value.

01372003 WALLKILL RIVER NEAR ROSENDALE, N.Y.

LOCATION.--Lat 41°48'53", long 74°03'33", Ulster County, at bridge on State Highway 32 and 213, 0.2 mi (0.3 km) upstream from Interstate Highway 87, 1.0 mi (1.6 km) south of Tillson, and 1.7 mi (2.7 km) southeast of Rosendale.

DRAINAGE AREA.--764 mi^2 (1,979 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to May 1970, May 1971 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JAN.										
24...	1445	4.5	1300	110	25	6.0	7.6	1.6	62	0
MAR.										
05...	1500	3.6	1000	100	25	6.0	7.9	1.5	62	0
APR.										
05...	1430	4.3	4100	200	16	3.4	4.8	1.3	35	0
30...	1100	4.7	1800	100	23	5.2	6.3	1.3	58	0
MAY										
22...	1400	4.5	1800	60	24	5.1	5.6	1.0	64	0
JULY										
02...	--	6.0	2800	120	20	3.4	4.5	2.1	48	0
30...	1200	5.3	860	60	30	6.8	9.1	1.9	91	0
AUG.										
20...	1030	7.0	720	80	38	9.5	10	2.2	122	0
SEP.										
17...	1400	5.4	990	150	41	9.4	12	3.6	119	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
JAN.										
24...	51	27	13	.1	1.1	.00	.21	.14	.08	121
MAR.										
05...	51	26	14	.2	1.0	.00	.35	.09	.04	120
APR.										
05...	29	25	7.5	.3	.79	.01	.93	.20	.06	84
30...	48	28	10	.1	.68	.02	.60	.17	.11	111
MAY										
22...	52	24	8.1	.3	.57	.03	.43	.15	.07	107
JULY										
02...	39	22	5.8	.2	1.0	.02	.57	.26	.15	93
30...	75	25	14	.2	.95	.00	.31	.17	.11	142
AUG.										
20...	100	29	16	.4	.90	.00	.20	.20	.14	177
SEP.										
17...	98	41	18	.3	1.2	.00	.39	.24	.19	195

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
JAN.										
24...	31	25	156	118	87	36	209	7.5	10	.0
MAR.										
05...	34	28	169	142	87	36	218	--	12	.0
APR.										
05...	132	114	213	167	54	25	130	7.2	29	.0
30...	48	38	181	128	79	31	189	7.3	18	.0
MAY										
22...	40	37	170	137	81	28	180	7.5	23	.0
JULY										
02...	71	62	185	134	64	25	149	7.4	34	.0
30...	16	13	194	122	100	28	243	7.4	18	.0
AUG.										
20...	24	21	223	176	130	34	306	7.5	15	.0
SEP.										
17...	24	22	240	197	140	43	340	7.4	24	.0

01372005 RONDOUT CREEK AT EDDYVILLE, N.Y.

LOCATION.--Lat 41°53'39", long 74°01'13", Ulster County, just upstream of dam about 200 ft (61 m) upstream from bridge on State Highway 213 at Eddyville and 1.2 mi (1.9 km) upstream from Twaalfskill Brook.

DRAINAGE AREA.-- 1,186 mi^2 (3,072 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to May 1970, May 1971 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JAN.										
24...	1400	4.3	670	70	22	5.3	6.6	1.2	55	0
MAR.										
05...	1530	3.6	660	80	25	6.0	7.9	1.6	65	0
APR.										
05...	1500	3.9	3000	120	14	2.9	4.1	1.1	31	0
30...	1130	3.6	1100	50	22	5.2	6.2	1.0	64	0
MAY										
22...	1500	3.9	0	0	19	3.7	4.5	.8	48	0
JULY										
02...	--	5.0	2500	100	17	2.7	3.8	1.8	40	0
30...	1220	3.8	570	40	32	8.2	8.3	1.6	106	0
AUG.										
20...	1115	5.3	140	50	31	6.9	7.8	1.7	97	0
SEP.										
17...	1300	2.5	80	100	34	8.2	10	2.5	114	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
JAN.										
24...	45	25	10	.0	1.0	.00	.36	.08	.05	106
MAR.										
05...	53	26	15	.1	1.0	.00	.20	.08	.04	122
APR.										
05...	25	22	7.0	.3	.64	.01	.59	.13	.04	74
30...	52	24	10	.2	.46	.01	.47	.10	.05	106
MAY										
22...	39	19	6.5	.3	.38	.02	.26	.09	.03	83
JULY										
02...	33	17	5.0	.1	.89	.00	.50	.64	.12	77
30...	87	24	14	.3	.70	.00	.14	.09	.06	148
AUG.										
20...	80	22	12	.2	.54	.01	.10	.10	.07	138
SEP.										
17...	94	27	15	.3	.49	.01	.06	.12	.10	158

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
JAN.										
24...	22	17	140	112	77	32	190	7.4	11	.0
MAR.										
05...	21	15	152	123	87	34	219	--	10	.0
APR.										
05...	86	81	160	129	47	21	114	7.2	16	.0
30...	26	20	150	105	76	24	182	7.4	13	.0
MAY										
22...	25	20	134	104	63	23	138	7.5	16	.0
JULY										
02...	68	60	164	121	54	21	125	7.2	26	.0
30...	8	5	179	126	110	27	258	7.6	15	.0
AUG.										
20...	3	2	162	122	110	26	241	7.6	13	.0
SEP.										
17...	2	0	191	144	120	25	286	7.4	13	.0

01372063 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 41°43'18", long 73°56'28", Dutchess County, at city pumping station on east bank, adjacent (north) to Marist College, 0.5 mi (0.8 km) north of Poughkeepsie and 1.3 mi (2.1 km) upstream from Mid-Hudson Bridge.

DRAINAGE AREA.--11,700 mi² (30,300 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.
Water temperatures: June 1959 to September 1966, October 1972 to September 1973.

EXTREMES.--1972-73:
Water temperatures; Maximum, 25.5°C on several days during August and September; minimum, 0.5°C on many days during January to March.
Period of record:
Water temperatures: Maximum, 26.5 °C Aug. 29, 1959; minimum, 0.5°C on many days during winter periods.

REMARKS.--No record on Sundays or holidays.

COOPERATION.--City of Poughkeepsie, Water Department.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)
JAN.												
24...	1600	5.4	23	4.5	6.9	1.0	63	21	9.2	.1	1.2	.00
MAR.												
19...	1230	4.5	22	3.6	5.3	.9	57	17	8.0	.0	.79	.00
APR.												
10...	1105	4.5	19	3.3	4.6	1.1	52	18	7.5	.2	.40	.01
MAY												
03...	1010	3.9	21	3.9	5.6	.8	58	19	9.0	.1	.67	.00
03...	1330	3.9	24	3.9	5.6	.8	58	19	8.6	.1	.69	.00
JUNE												
06...	1200	4.1	18	3.4	4.3	.7	50	17	6.0	.2	.69	.01
JULY												
25...	1030	2.0	24	4.3	5.6	1.4	71	16	8.4	.2	.64	.01
AUG.												
07...	1240	.5	24	4.7	6.3	1.3	73	17	10	.1	.59	.01
07...	1300	1.5	22	5.2	6.9	.4	71	14	10	.1	.59	.00
SEP.												
25...	1100	.6	22	5.2	9.7	1.5	70	19	13	.3	.39	.02
25...	1300	.4	24	5.1	9.2	1.5	73	19	13	.3	.64	.00

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JAN.												
24...	.12	.24	.06	.02	--	108	16	12	130	114	--	--
MAR.												
19...	.07	.12	.08	.03	--	93	29	22	135	108	--	--
APR.												
10...	.20	.79	.15	.03	--	86	94	86	181	150	--	--
MAY												
03...	.02	.39	.06	--	93	95	--	--	--	--	40	93
03...	.03	.59	.16	.04	--	98	81	71	--	--	--	--
JUNE												
06...	.17	.80	.32	.04	--	82	212	190	300	259	--	--
JULY												
25...	.10	.18	.09	.04	--	100	30	26	137	107	--	--
AUG.												
07...	.05	.24	.09	.05	--	103	30	26	126	113	--	--
07...	--	--	.01	--	122	98	--	--	--	--	--	--
SEP.												
25...	.00	.54	.36	--	151	106	--	--	--	--	--	--
25...	.01	.29	.15	.05	--	111	65	8	193	143	--	--

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

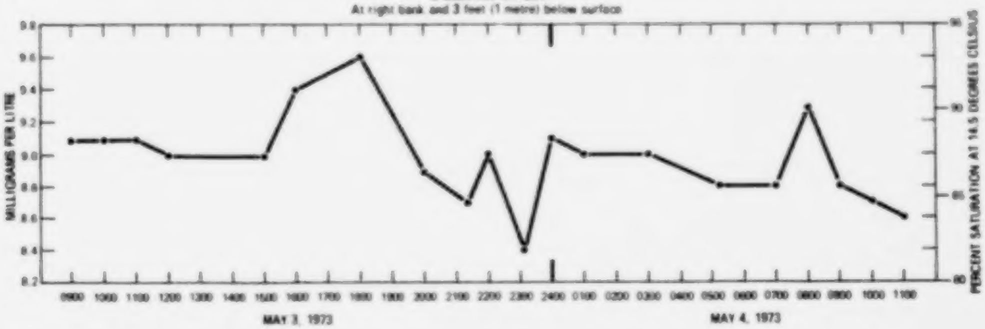
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
JAN.												
24...	76	24	191	7.2	--	5	--	--	--	.0	490	100
MAR.												
19...	78	23	159	7.2	5.0	6	1300	220	160	.0	1300	60
APR.												
10...	61	18	160	7.4	6.5	16	2800	220	130	.0	3600	100
MAY												
03...	69	21	164	7.1	--	8	--	--	--	--	760	30
03...	76	28	165	7.0	14.0	14	580	100	--	.0	2900	150
JUNE												
06...	59	18	139	7.0	12.0	30	B15000	220	B30	.0	6000	350
JULY												
25...	78	19	177	7.3	24.5	13	B9100	240	--	.0	960	70
AUG.												
07...	79	19	183	7.3	27.0	13	--	--	--	.0	920	80
07...	76	18	187	7.9	27.0	--	5500	390	B25	--	1100	100
SEP.												
25...	76	19	207	7.8	22.0	--	5300	--	B18	--	2400	180
25...	81	21	200	7.4	22.0	26	--	--	--	.0	2700	220

DATE	TIME	TURBIDITY (JTU)	TOTAL PHYTOPLANKTON (CELLS PER ML)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
MAY												
03...	1010	10	--	10	--	0	--	--	--	--	--	--
AUG.												
07...	1300	--	4800	5	3	4	2	10	<10	1	0	40
SEP.												
25...	1100	35	--	1	2	2	3	10	0	3	3	30

DATE	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAY											
03...	--	--	--	--	--	--	--	--	2	--	--
AUG.											
07...	20	130	40	13	2	<.5	<.5	1	1	40	10
SEP.											
25...	20	110	40	11	2	2.1	.7	2	2	60	30

DISSOLVED OXYGEN
At right bank and 3 feet (1 metre) below surface



B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

CROSS-SECTION MEASUREMENTS

All distances and depths are approximate.
Cond. - Specific conductance (micromhos/cm at 25°C).
D.O. - Dissolved Oxygen (Mg/l).
Temp. - Water temperatures (°C).

May 3, 1973 0905 to 1048 Hours

Distance from left bank	260 ft (79 m)			800 ft (244 m)			1320 ft (402 m)			1850 ft (564 m)			2380 ft (725 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	160	7.8	14.0	160	8.4	14.0	162	8.5	14.0	165	8.3	14.0	160	8.8	14.0
10 3	160	7.4	14.0	160	8.7	14.0	162	8.4	14.0	165	8.6	14.0	165	8.6	14.0
middepth	160	7.2	14.0	160	8.5	14.0	162	8.5	14.0	165	8.6	14.0	160	8.4	14.0
50 15	160	6.9	14.0	162	8.4	14.0	162	8.5	14.0	165	8.4	14.0	160	8.4	14.0
Total depth	50 ft (15 m)			52 ft (16 m)			56 ft (17 m)			58 ft (18 m)			64 ft (20 m)		

May 3, 1973 1230 to 1400 Hours

Distance from left bank	260 ft (79 m)			800 ft (244 m)			1320 ft (402 m)			1850 ft (564 m)			2380 ft (725 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	165	9.4	14.0	160	9.1	14.0	165	8.8	14.0	165	8.8	14.0	160	8.9	14.0
10 3	165	9.4	14.0	165	9.0	14.0	165	8.8	14.0	165	8.9	14.0	165	9.0	14.0
middepth	165	9.4	14.0	165	9.0	14.0	165	9.0	13.5	165	8.9	14.0	165	9.4	14.0
50 15	*165	9.4	14.0	165	8.9	13.5	165	9.2	13.5	165	9.0	13.5	165	9.8	13.5
Total depth	50 ft (15 m)			52 ft (16 m)			56 ft (17 m)			58 ft (18 m)			64 ft (20 m)		

* Measured at 16 ft (5 m) depth.

May 3, 1973 1501 to 1548 Hours

Distance from left bank	260 ft (79 m)			800 ft (244 m)			1320 ft (402 m)			1850 ft (564 m)			2380 ft (725 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	170	8.6	14.0	165	9.2	14.0	165	8.8	14.0	165	8.4	14.0	165	8.6	14.0
10 3	170	8.4	14.0	165	8.4	14.0	165	8.7	14.0	165	8.5	14.0	165	8.2	14.0
middepth	170	8.6	14.0	165	8.4	14.0	165	8.6	14.0	165	8.4	14.0	165	8.0	14.0
50 15	170	8.4	14.0	165	8.4	14.0	165	8.6	14.0	165	8.4	14.0	165	8.6	14.0
Total depth	50 ft (15 m)			52 ft (16 m)			56 ft (17 m)			58 ft (18 m)			64 ft (20 m)		

August 7, 1973 0950 to 1050 Hours

Distance from left bank	260 ft (79 m)			800 ft (244 m)			1320 ft (402 m)			1850 ft (564 m)			2380 ft (725 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	180	6.4	25.5	185	6.4	25.5	185	6.3	26.0	180	7.0	25.5	180	6.9	26.0
10 3	180	6.2	25.5	185	6.1	25.5	185	6.3	26.0	185	6.4	25.5	180	6.6	26.0
middepth	185	6.0	25.5	185	5.8	25.5	180	6.2	26.0	185	6.2	25.5	185	6.4	25.5
50 15	185	6.0	25.5	185	5.8	25.5	185	5.8	26.0	180	6.2	25.5	185	6.4	25.5
Total depth	62 ft (19 m)			58 ft (18 m)			60 ft (18 m)			54 ft (16 m)			56 ft (17 m)		

August 7, 1973 1440 to 1528 Hours

Distance from left bank	260 ft (79 m)			800 ft (244 m)			1320 ft (402 m)			1850 ft (564 m)			2380 ft (725 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	185	6.8	27.0	190	6.5	26.0	190	7.0	26.0	190	7.3	26.5	190	7.2	26.0
10 3	190	6.4	26.5	190	6.3	26.0	190	6.2	26.0	190	6.8	26.0	190	7.0	26.0
middepth	190	6.3	26.0	190	6.2	25.5	190	6.0	25.5	190	6.1	26.0	190	6.2	25.5
50 15	190	6.2	25.5	190	6.2	25.5	190	6.0	26.5	190	5.8	25.5	190	6.0	25.5
Total depth	60 ft (18 m)			56 ft (17 m)			58 ft (18 m)			52 ft (16 m)			54 ft (16 m)		

September 25, 1973 1215 to 1302 Hours

Distance from left bank	260 ft (79 m)			800 ft (244 m)			1320 ft (402 m)			1850 ft (564 m)			2380 ft (725 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	210	5.7	22.0	200	5.8	22.0	200	5.8	22.0	190	5.8	22.0	200	5.7	22.0
10 3	210	5.6	22.0	200	5.6	22.0	200	5.7	22.0	190	5.8	22.0	200	5.6	22.0
middepth	210	5.6	22.0	200	5.5	22.0	200	5.6	22.0	190	5.8	22.0	200	5.6	22.0
50 15	210	5.5	22.0	200	5.5	22.0	200	5.5	22.0	190	5.7	22.0	200	5.6	22.0
Total depth	62 ft (19 m)			64 ft (20 m)			60 ft (18 m)			56 ft (17 m)			58 ft (18 m)		

September 25, 1973 1435 to 1513 Hours

Distance from left bank	260 ft (79 m)			800 ft (244 m)			1320 ft (402 m)			1850 ft (564 m)			2380 ft (725 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	230	5.9	18.5	225	5.6	20.0	225	5.6	21.0	225	5.5	21.0	225	5.6	21.0
10 3	230	5.6	19.0	225	5.5	20.0	225	5.4	21.0	225	5.5	21.0	225	5.6	21.0
middepth	230	5.4	19.0	225	5.4	20.0	225	5.4	21.0	225	5.4	21.0	225	5.4	21.0
50 15	230	5.4	19.5	225	5.4	20.0	225	5.4	21.0	225	5.4	21.0	225	5.5	21.0
Total depth	58 ft (18 m)			58 ft (18 m)			56 ft (17 m)			52 ft (16 m)			56 ft (17 m)		

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.5	3.5	---	0.5	0.5	---	12.0	15.5	---	25.0	25.0
2	20.0	11.5	3.5	1.0	0.5	0.5	6.0	12.0	15.5	21.5	25.0	---
3	19.5	11.0	---	1.0	0.5	0.5	7.0	12.0	---	22.0	25.0	25.0
4	19.5	10.5	3.0	1.5	---	---	7.0	12.0	16.5	21.5	25.0	24.5
5	19.5	---	3.0	1.5	0.5	1.0	8.0	12.0	17.0	22.0	---	24.5
6	19.5	10.0	3.0	1.0	0.5	1.0	8.0	---	18.0	22.0	25.0	24.5
7	19.5	9.5	3.0	---	0.5	1.0	8.0	13.5	18.0	22.0	25.0	24.5
8	---	9.5	2.0	1.0	0.5	1.0	---	13.5	18.5	---	25.0	24.5
9	18.5	9.5	2.0	0.5	0.5	1.0	6.5	13.5	18.5	24.0	25.5	---
10	18.0	9.5	---	0.5	0.5	1.0	7.0	14.0	---	24.0	25.5	25.5
11	17.0	9.0	2.0	0.5	---	---	7.0	14.0	20.0	24.0	25.5	25.5
12	17.0	---	2.0	0.5	0.5	4.0	7.0	14.0	21.0	24.0	---	25.5
13	17.0	8.5	2.0	0.5	0.5	4.0	7.0	---	21.0	24.5	25.0	25.5
14	17.0	8.5	2.0	---	0.5	4.5	7.0	14.0	21.0	24.5	24.5	25.0
15	---	8.0	1.5	0.5	0.5	5.0	---	14.5	21.0	---	24.5	25.0
16	16.5	6.5	1.5	0.5	0.5	5.0	7.0	14.5	21.0	24.0	24.5	---
17	16.0	6.5	---	0.5	0.5	5.0	7.0	14.5	---	24.0	24.5	25.0
18	15.0	6.5	1.0	0.5	---	---	8.5	14.5	21.0	24.0	24.5	25.0
19	15.0	---	1.0	0.5	0.5	5.5	9.0	14.5	21.5	24.0	---	24.0
20	14.5	5.5	1.0	0.5	0.5	5.5	9.0	---	21.5	24.0	24.0	24.0
21	14.0	5.0	0.5	---	0.5	5.0	9.5	14.5	21.5	24.0	24.5	23.0
22	---	4.5	0.5	0.5	0.5	5.0	---	14.5	22.0	---	24.0	23.0
23	14.5	---	0.5	0.5	0.5	5.0	10.0	14.5	23.0	24.0	24.0	---
24	13.5	4.0	0.5	0.5	0.5	5.5	10.5	14.5	---	24.0	24.0	21.0
25	13.5	4.0	---	0.5	---	---	11.0	14.5	21.5	24.5	24.0	21.0
26	13.5	---	0.5	0.5	0.5	5.0	11.5	14.5	22.0	24.5	---	20.5
27	13.5	3.5	0.5	0.5	0.5	5.0	11.5	---	21.5	25.0	24.5	20.5
28	13.5	3.5	0.5	---	0.5	5.0	11.5	14.5	21.5	25.0	25.0	20.5
29	---	3.5	0.5	0.5	---	5.0	---	15.0	21.5	---	25.5	20.5
30	13.5	3.5	0.5	1.0	---	5.0	12.0	15.0	21.5	25.0	25.5	---
31	11.5	---	0.5	1.0	---	5.0	---	15.0	---	---	25.0	---
AVERAGE	16.0	7.5	1.5	1.0	0.5	3.5	8.5	14.0	20.0	23.5	25.0	23.5

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.

LOCATION.--Lat 41°39'11", long 73°52'23", Dutchess County, at gaging station 700 ft (213 m) downstream from Red Oak Mill dam and 4.5 mi (7.2 km) northeast of Wappingers Falls.

DRAINAGE AREA.--181 mi² (469 km²).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1964, August 1965 to September 1973.
Water temperatures: October 1963 to September 1964.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT.										
02...	1300	34	3.8	150	30	47	13	12	1.4	161
20...	1330	45	3.1	120	20	48	12	12	1.6	151
NOV.										
17...	1310	503	7.5	280	40	33	6.7	11	1.8	88
DEC.										
19...	0945	430	7.3	440	0	33	9.0	7.5	.9	99
JAN.										
23...	1315	1100	5.4	3500	210	28	6.1	10	1.6	70
FEB.										
21...	1050	284	5.6	140	10	37	9.2	8.5	.9	106
MAR.										
20...	1100	604	4.5	180	30	28	6.6	6.6	.9	82
APR.										
17...	1430	400	3.4	210	0	31	8.0	7.1	.8	101
MAY										
24...	1200	624	5.3	1900	120	33	7.1	8.4	.8	94
JUNE										
18...	1315	128	2.4	200	40	38	10	8.4	.8	133
JULY										
20...	1300	151	2.4	170	30	36	10	7.8	.9	128
AUG.										
21...	1115	79	6.0	550	30	39	11	7.7	1.2	148
SEP.										
18...	1315	57	6.0	220	50	35	12	9.5	1.2	142

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT.										
02...	0	132	30	18	.1	.65	.01	--	--	--
20...	0	124	35	20	.1	.53	.01	.54	.02	.01
NOV.										
17...	0	72	31	17	.0	1.1	.01	.45	.04	.02
DEC.										
19...	0	81	29	13	.0	1.2	.00	.36	.02	.01
JAN.										
23...	0	57	24	17	.0	1.6	.00	.38	.25	.03
FEB.										
21...	0	87	27	15	.0	1.5	.01	.10	.01	.01
MAR.										
20...	0	67	22	12	.0	.88	.00	.40	.02	.00
APR.										
17...	0	83	24	13	.1	.86	.01	.23	.02	.00
MAY										
24...	0	77	24	12	.2	.64	.01	.17	.06	.01
JUNE										
18...	0	109	18	14	.1	.55	.01	.10	.02	.00
JULY										
20...	0	105	20	12	.2	.51	.03	.27	.02	.00
AUG.										
21...	0	121	19	13	.2	.83	.00	.10	.02	.01
SEP.										
18...	0	116	24	14	.4	.63	.00	.09	.01	.01

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.										
02...	208	--	--	--	--	170	38	357	8.1	13.0
20...	209	4	0	222	175	170	45	360	8.3	7.0
NOV.										
17...	157	17	2	190	156	110	38	274	7.4	4.0
DEC.										
19...	154	11	6	168	132	120	39	259	7.8	.5
JAN.										
23...	134	96	84	206	173	95	38	240	7.2	2.5
FEB.										
21...	163	0	0	170	136	130	43	278	7.7	2.0
MAR.										
20...	125	7	2	144	103	97	30	213	7.8	5.0
APR.										
17...	141	5	4	167	121	110	28	246	7.9	12.0
MAY										
24...	140	73	65	261	195	90	13	238	7.3	14.0
JUNE										
18...	160	6	3	199	148	140	27	290	8.1	18.0
JULY										
20...	155	26	7	196	146	130	26	280	8.0	22.0
AUG.										
21...	174	4	3	188	151	140	21	309	7.9	21.5
SEP.										
18...	175	6	4	195	163	140	20	314	8.2	18.0

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
02...	--	--	--	--	--	.0	--	--	--	--
20...	11.2	92	6	260	B14	.0	--	--	--	--
NOV.										
17...	11.4	86	9	1600	B300	.0	0	0	4	<.5
DEC.										
19...	11.2	78	0	1400	100	.0	--	--	--	--
JAN.										
23...	11.2	82	8	B8600	B680	.0	--	--	--	--
FEB.										
21...	10.6	76	3	320	B10	.0	--	--	--	--
MAR.										
20...	12.2	95	5	290	B10	.0	--	--	--	--
APR.										
17...	11.3	105	4	2700	240	.0	--	--	--	--
MAY										
24...	10.8	104	7	B1800	180	.0	--	--	--	--
JUNE										
18...	8.8	93	7	550	82	.0	--	--	--	--
JULY										
20...	8.8	100	7	2500	210	.0	--	--	--	--
AUG.										
21...	8.0	90	5	3900	74	.0	--	--	--	--
SEP.										
18...	7.9	80	5	B4300	B300	.0	4	0	6	<.5

B Results based on colony count outside the acceptable range (non-ideal colony count).

01372550 HUDSON RIVER NEAR CHELSEA, N.Y.

LOCATION.--Lat 41°34'20", long 73°57'45", Dutchess County, approximately 0.2 mi (0.3 km) southeast of Danskammer Point on line between Danskammer Point and Chelsea Pumping Station, 1.3 mi (2.1 km) north of Chelsea and approximately 0.8 mi (1.3 km) downstream from Wappinger Creek.

DRAINAGE AREA.--11,995 mi^2 (31,067 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
11...	0900	.4	480	0	27	5.2	10	1.3	72	0	59	23
25...	0825	.5	600	40	25	4.9	10	1.3	71	0	58	23
NOV.												
08...	0900	.7	700	30	25	4.8	10	1.4	66	0	54	25
22...	0915	5.1	2100	50	24	4.0	5.2	2.2	57	0	47	26
DEC.												
06...	0920	4.8	1800	70	24	4.4	6.2	1.4	63	0	52	26
20...	0900	5.3	2000	30	22	4.1	6.4	1.1	58	0	48	24
JAN.												
10...	0900	4.8	1900	70	25	4.5	6.8	1.1	63	0	52	26
24...	0840	5.4	750	0	23	4.7	6.7	1.0	61	0	50	22
FEB.												
07...	0830	4.7	1300	80	20	3.8	5.7	.9	50	0	41	19
21...	0845	4.9	1500	50	21	4.1	6.8	1.1	53	0	43	19
MAR.												
07...	0850	5.5	1100	70	22	4.3	7.3	.9	58	0	48	21
21...	0845	4.8	2200	70	22	3.9	5.4	1.0	58	0	48	18
APR.												
04...	0830	4.6	1300	70	21	3.8	7.6	1.0	55	0	45	19
18...	0810	4.5	1800	80	21	3.5	4.7	.9	58	0	48	19
MAY												
02...	0830	4.2	860	20	21	3.9	5.6	.8	59	0	48	17
16...	0835	3.5	1200	50	20	4.0	5.8	1.1	56	0	46	19
30...	0820	4.2	570	50	20	3.5	4.1	.8	58	0	48	16
JUNE												
13...	0845	3.7	930	60	19	3.5	4.7	.8	53	0	43	13
27...	0840	1.4	1300	80	21	4.2	5.8	.9	64	0	52	17
JULY												
11...	0830	3.8	950	50	21	3.6	5.9	1.5	59	0	48	16
25...	0820	3.2	1400	110	23	4.4	6.2	1.3	69	0	57	19
AUG.												
08...	0820	.9	470	50	24	4.7	6.3	1.4	71	0	58	13
22...	0830	.3	360	40	24	4.8	6.7	1.4	74	0	61	16
SEP.												
05...	0835	.2	290	40	23	5.1	8.3	1.5	73	0	60	17
19...	0830	.3	430	50	24	6.3	24	.8	72	0	59	22

01372550 HUDSON RIVER NEAR CHELSEA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.											
11...	14	.1	.75	.00	.61	.08	.06	120	140	10	147
25...	14	.0	.90	.00	.58	.09	.06	120	14	12	145
NOV.											
08...	15	.0	.86	.00	.49	.10	.04	118	21	18	145
22...	7.5	.1	.66	.03	.50	.14	.05	105	48	39	158
DEC.											
06...	9.8	.1	.75	.00	.60	.11	.05	111	40	33	163
20...	9.5	.0	.70	.00	.37	.15	.04	104	57	48	160
JAN.											
10...	12	.0	.80	.00	.56	.14	.04	115	47	44	159
24...	9.5	.0	.95	.00	.00	.06	.03	107	24	20	128
FEB.											
07...	9.0	.1	.86	.00	.33	.10	.03	92	36	34	141
21...	11	.0	.94	.00	.10	.10	.03	98	39	34	134
MAR.											
07...	11	.0	.94	.00	.27	.08	.02	105	30	23	140
21...	8.5	.0	.76	.00	--	.10	.03	96	48	40	151
APR.											
04...	8.5	.2	.81	.01	.72	.08	.03	97	37	32	180
18...	6.6	.1	.69	.00	.58	.09	.08	92	48	42	135
MAY											
02...	8.5	.2	.73	.01	.40	06	.03	94	24	18	129
16...	8.5	.2	.70	.00	1.2	.08	.03	93	30	26	156
30...	5.4	.2	.51	.00	.33	.08	.01	85	29	2	129
JUNE											
13...	6.9	.2	.61	.01	.64	.07	.03	81	26	24	137
27...	7.2	.1	.51	.00	.38	.11	.03	92	40	34	149
JULY											
11...	8.1	.2	.79	.00	.21	.09	.05	93	21	18	130
25...	9.5	.2	.74	.00	.22	.08	.03	104	22	18	155
AUG.											
08...	9.5	.2	.74	.01	.22	.07	.04	98	20	17	127
22...	9.5	.1	.56	.00	.05	.07	.04	102	8	3	140
SEP.											
05...	12	.4	.38	.13	.16	.07	.05	105	12	8	128
19...	39	.3	.53	.00	.26	.07	.05	155	7	0	188

DATE	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
11...	121	89	30	216	7.7	9	.0	--	--	--	--
25...	114	83	24	208	7.8	13	.0	0	0	9	<.5
NOV.											
08...	120	82	28	213	7.6	15	.0	--	--	--	--
22...	122	76	29	172	7.2	14	.0	--	--	--	--
DEC.											
06...	126	78	26	182	7.2	10	.0	--	--	--	--
20...	127	72	24	178	7.2	4	.0	--	--	--	--
JAN.											
10...	133	81	29	191	7.5	10	.0	0	0	11	<.5
24...	110	77	27	187	7.2	9	.0	--	--	--	--
FEB.											
07...	116	66	25	161	7.5	12	.0	--	--	--	--
21...	117	69	26	170	7.7	8	.0	--	--	--	--
MAR.											
07...	123	73	25	179	7.0	10	.0	--	--	--	--
21...	118	71	23	161	7.3	8	.0	--	--	--	--
APR.											
04...	134	68	23	159	7.6	9	.0	--	--	--	--
18...	109	67	19	151	7.7	9	.0	--	--	--	--
MAY											
02...	104	69	20	162	7.2	10	.0	--	--	--	--
16...	115	66	20	164	6.9	11	.1	--	--	--	--
30...	99	64	17	143	7.5	10	.0	0	0	6	<.5
JUNE											
13...	94	62	18	145	7.3	9	.0	--	--	--	--
27...	120	70	17	165	7.4	13	.0	--	--	--	--
JULY											
11...	96	67	19	162	7.4	13	.0	--	--	--	--
25...	95	76	19	180	7.3	13	.0	2	50	10	5.0
AUG.											
08...	100	79	21	182	7.2	12	.0	--	--	--	--
22...	100	80	19	188	7.3	10	.0	--	--	--	--
SEP.											
05...	101	78	19	196	7.4	10	.0	--	--	--	--
19...	145	86	27	299	7.3	12	.0	--	--	--	--

01372575 HUDSON RIVER AT BEACON, N.Y.

LOCATION.--Lat 41°30'18", long 73°59'21" Dutchess County, at point of land in Beacon, 1.0 mi (1.6 km) downstream from Beacon-Newburgh Bridge and 0.8 mi (1.3 km) upstream from north end of Denning Point.

DRAINAGE AREA.--12,011 mi² (31,108 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 05...	0845	.6	1200	60	27	10	54	3.3	75	0	62
NOV. 01...	0830	.6	600	50	26	5.6	16	1.5	71	0	58
DEC. 06...	0850	5.3	2000	70	26	5.1	12	1.4	67	0	55
JAN. 17...	1205	4.7	670	0	25	4.7	8.5	1.1	65	0	53
FEB. 15...	0850	4.8	850	0	19	3.8	12	1.1	51	0	42
MAR. 14...	0850	5.5	540	60	22	4.2	12	.9	60	0	49
APR. 11...	0855	4.7	2000	60	21	3.8	6.8	1.4	54	0	44
MAY 10...	1055	3.9	800	30	22	4.5	6.7	1.0	63	0	52
JUNE 06...	0900	4.1	1400	80	20	3.7	5.2	.8	57	0	47
JULY 05...	0900	2.4	1130	90	21	3.8	7.9	1.1	63	0	52
AUG. 01...	0910	2.7	680	80	24	4.5	8.1	1.6	72	0	59
30...	0845	.3	110	100	24	5.1	10	1.6	75	0	62
SEP. 26...	1110	.4	530	50	23	13	89	4.9	75	0	62

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)
OCT. 05...	34	88	.1	.72	.01	.50	.14	.07	257	33	26
NOV. 01...	23	24	.0	.81	.00	.43	.13	.07	135	39	32
DEC. 06...	26	19	.1	.94	.00	.62	.19	.05	132	64	54
JAN. 17...	21	15	.0	.68	.01	.25	.06	.02	115	25	20
FEB. 15...	21	18	.1	.94	.16	.28	.11	.02	109	31	25
MAR. 14...	21	15	.0	1.0	.00	.28	.09	.03	115	26	19
APR. 11...	19	9.5	.2	1.0	.00	.36	.13	.05	98	55	48
MAY 10...	19	10	.3	.75	.03	.13	.11	.04	102	27	22
JUNE 06...	16	6.5	.2	.54	.02	.24	.11	.03	87	36	30
JULY 05...	14	12	.2	.58	.01	.32	.12	.03	96	34	29
AUG. 01...	16	12	.3	.85	.00	.21	.11	.05	109	23	19
30...	18	16	.4	.58	.00	.19	.11	.05	115	69	48
SEP. 26...	36	150	.3	.67	.00	.22	.09	.06	357	18	9

01372575 HUDSON RIVER AT BEACON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESI- DUE (MG/L)	RESIDUE ON IGNI- TION (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
05...	333	288	110	47	500	7.8	11	.0	--	--	--
NOV.											
01...	278	239	88	30	255	7.6	13	.0	--	--	--
DEC.											
06...	198	162	86	31	224	7.0	8	.0	--	--	--
JAN.											
17...	133	114	82	28	202	7.5	9	.0	--	--	--
FEB.											
15...	140	118	63	21	188	7.5	9	.0	--	--	--
MAR.											
14...	159	122	72	23	196	7.2	8	.0	--	--	--
APR.											
11...	160	125	68	24	167	7.3	13	.0	--	--	--
MAY											
10...	160	110	73	22	177	7.1	6	.0	--	--	--
JUNE											
06...	101	131	65	18	153	7.3	12	.0	--	--	--
JULY											
05...	147	116	68	16	182	7.5	12	.0	0	40	<.5
AUG.											
01...	150	110	78	19	200	7.2	13	.0	--	--	--
30...	160	126	81	19	214	7.3	14	.0	--	--	--
SEP.											
26...	386	326	110	49	680	7.5	12	.0	--	--	--

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.

LOCATION.--Lat 41°34'22", long 73°48'25", Dutchess County, temperature recorder at gaging station on right bank 400 ft (122 m) upstream from bridge on State Highway 376, 500 ft (152 m) upstream from small tributary, and 0.6 mi (1.0 km) south of State Highway 82, at Hopewell Junction.

DRAINAGE AREA.--57.3 mi^2 (148 km^2).

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum 25.0° Sept. 3, 4; minimum, freezing point on several days during January and February.

Period of record:
Water temperatures: Maximum, 27.0° July 13, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--No record Oct. 1, May 2-7.

CHEMICAL ANALYSIS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT.										
02...	1440	15	6.0	45	16	5.8	1.9	174	0	143

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.									
02...	24	11	.1	.60	180	36	340	8.1	12.0

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	7.0	6.5	2.0	1.5	4.0	2.0	0.5	0.0	1.5	0.5
2	12.0	12.0	8.5	8.0	2.0	1.5	4.0	3.0	0.5	0.0	3.5	1.5
3	12.0	11.5	10.0	8.5	3.5	2.0	3.0	1.5	1.0	0.0	3.5	3.0
4	13.5	12.0	10.0	8.5	3.5	3.0	1.5	1.5	1.5	1.0	3.5	3.0
5	13.5	12.0	8.5	8.0	3.0	2.0	1.5	1.5	3.0	1.5	3.5	3.0
6	14.5	13.5	7.0	6.5	5.0	3.0	1.5	0.5	3.0	2.0	4.5	3.5
7	14.5	14.5	6.5	5.5	5.0	3.0	1.0	0.0	4.0	3.0	4.0	3.5
8	14.5	14.0	6.5	6.5	3.0	1.5	0.5	0.0	4.0	4.0	4.5	4.0
9	14.0	11.5	8.5	7.0	3.5	1.5	0.0	0.0	4.0	3.0	4.5	3.5
10	11.5	10.0	7.0	6.5	4.0	3.0	0.0	0.0	3.0	2.0	4.5	4.0
11	10.0	9.0	7.0	6.5	4.0	3.5	0.0	0.0	2.0	1.5	4.5	4.5
12	10.5	10.0	7.0	6.5	3.5	2.0	0.0	0.0	1.5	1.0	6.0	4.5
13	11.0	10.5	7.0	6.5	3.0	2.0	0.0	0.0	1.5	1.0	6.5	5.5
14	10.5	9.0	6.5	5.5	3.0	2.0	0.0	0.0	1.5	1.0	6.5	5.0
15	10.0	9.5	5.5	4.5	3.0	1.5	0.0	0.0	3.0	1.5	5.0	5.0
16	9.0	8.5	4.5	3.5	1.5	1.0	1.0	0.0	3.0	2.0	7.0	5.0
17	9.5	9.0	3.5	3.0	1.0	0.0	2.0	1.0	2.0	1.5	8.5	7.0
18	9.0	8.0	3.5	3.5	0.0	0.0	2.0	2.0	2.0	1.5	9.0	5.5
19	8.5	7.0	3.5	3.0	1.0	0.0	3.0	2.0	1.5	1.5	5.5	4.5
20	7.0	5.5	4.0	3.5	1.5	1.0	3.5	2.0	3.5	1.5	5.5	4.5
21	6.0	4.5	4.0	3.5	1.5	1.5	2.0	0.5	3.5	3.5	5.5	4.0
22	7.0	6.0	3.5	2.0	1.5	1.5	3.0	0.5	4.0	3.5	5.0	4.0
23	9.5	8.0	2.0	1.0	2.0	1.5	3.5	3.0	4.0	3.0	4.5	4.0
24	11.0	9.5	2.0	1.0	3.0	2.0	3.0	2.0	3.5	2.0	6.0	4.5
25	11.0	10.0	3.0	2.0	3.0	2.0	2.0	1.5	3.0	1.5	6.5	5.5
26	10.0	9.0	5.0	3.0	3.0	3.0	2.0	1.5	3.0	3.0	6.5	6.5
27	9.0	7.0	5.0	4.0	3.0	3.0	3.0	2.0	3.0	1.0	7.0	7.0
28	10.0	8.5	4.5	4.0	3.0	2.0	3.0	2.0	1.0	0.0	7.0	5.5
29	10.5	10.0	4.5	4.0	2.0	1.0	2.0	0.5	---	---	8.0	7.0
30	10.5	8.5	4.0	2.0	1.5	1.0	0.5	0.0	---	---	8.5	8.0
31	8.5	6.5	---	---	2.0	1.5	0.5	0.0	---	---	9.0	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	12.0	10.5	16.5	15.5	18.5	18.0	22.0	22.0	24.5	23.5
2	9.0	9.0	---	---	16.5	16.0	18.5	18.0	22.0	21.5	24.5	23.5
3	9.0	8.5	---	---	16.5	15.5	18.5	18.0	22.0	21.5	25.0	24.0
4	9.0	8.5	---	---	15.5	15.5	18.5	18.0	23.5	22.0	25.0	23.5
5	8.0	8.0	---	---	16.5	15.5	19.0	18.5	24.0	23.0	24.5	23.5
6	8.0	6.5	---	---	16.5	16.5	18.5	18.0	23.5	21.5	24.0	23.0
7	10.0	6.5	---	---	19.0	18.5	18.5	17.0	23.5	21.5	23.0	21.0
8	10.0	8.5	14.0	13.0	19.5	18.5	19.0	18.0	24.0	22.0	21.0	20.0
9	7.0	4.0	13.0	13.0	20.5	19.0	19.0	18.5	24.5	23.0	20.0	18.5
10	9.0	8.0	15.5	13.0	21.0	19.5	19.5	19.0	24.5	23.5	19.0	17.0
11	6.5	7.0	15.5	15.0	21.5	19.5	19.0	18.5	24.5	23.5	18.0	16.5
12	8.0	5.5	15.0	14.0	21.5	20.5	18.5	16.5	24.0	23.0	18.5	17.0
13	8.5	6.0	14.0	13.5	21.0	19.5	16.0	15.5	23.5	22.0	18.0	16.5
14	9.0	6.5	13.0	12.0	19.5	18.5	18.0	16.0	23.5	21.0	17.0	16.5
15	10.0	8.0	13.0	12.0	18.5	18.0	18.0	17.0	22.0	21.5	16.5	16.0
16	11.5	9.0	13.5	11.5	18.5	16.5	17.0	17.0	21.5	21.0	16.5	15.5
17	11.5	10.0	14.0	13.0	18.5	16.5	18.5	17.0	23.0	20.5	16.5	15.5
18	12.0	10.5	14.5	11.5	18.0	16.0	18.5	17.0	22.0	21.0	18.0	16.5
19	13.5	12.0	13.0	10.5	16.5	15.5	19.0	18.0	22.0	21.0	17.0	15.5
20	14.0	13.0	13.5	12.0	16.5	16.5	19.5	19.0	23.0	20.5	16.5	14.5
21	14.0	12.0	12.0	12.0	19.0	18.0	19.0	18.5	22.0	20.5	15.5	13.5
22	15.0	13.0	14.0	12.0	19.0	18.5	19.5	18.0	21.5	20.5	14.0	13.0
23	15.5	15.0	14.0	12.0	18.5	18.0	20.0	19.5	20.5	19.0	16.0	13.0
24	15.0	14.0	14.0	12.0	19.5	18.0	20.5	19.0	21.0	19.5	16.0	15.5
25	14.5	13.0	14.5	14.0	19.5	18.5	20.5	19.0	22.0	20.0	16.0	15.5
26	13.0	10.5	14.0	13.5	19.5	18.5	20.0	20.0	22.0	21.0	16.0	14.5
27	10.5	9.5	13.5	13.0	19.0	18.5	21.0	20.0	22.0	25.0	16.5	15.5
28	10.0	9.5	13.0	13.0	18.5	18.0	21.5	20.5	24.0	22.0	16.5	16.5
29	10.0	9.0	15.5	13.0	18.5	18.0	22.0	21.5	24.5	23.0	16.5	16.0
30	10.5	8.0	16.0	15.5	18.0	18.0	23.0	21.0	24.5	23.5	16.0	14.5
31	---	---	17.0	16.0	---	---	23.0	21.0	24.5	23.5	---	---

01373500 FISHKILL CREEK AT BEACON, N.Y.

LOCATION.--Lat 41°30'40", long 73°56'55", Dutchess County, at former gaging station, at Bridge Street Bridge in Beacon, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--190 mi^2 (492 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, April 1969 to September 1973.
Water temperatures: October 1961 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 25.5°C Aug. 10; minimum, freezing point on several days during winter period.

Period of record:
Water temperatures: Maximum, 27.0°C July 20, 1964, July 14, 1966, July 18, 1969; and July 1, 9, 1971; minimum, freezing point on many days during winter periods some years.

REMARKS.--Water temperature measurements are made at lat 41°31'01", long 73°56'17", at the Texaco Research Center, 0.8 mi (1.3 km) upstream from former gaging station. No water temperature measurements made on weekends, holidays, and Aug. 24-31.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation. Water temperature records furnished by Texaco Incorporated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.												
01...	0910	6.7	330	50	41	13	12	2.1	136	0	112	34
DEC.												
06...	0925	6.8	450	50	27	8.0	8.5	.9	82	0	67	27
JAN.												
17...	1255	6.0	70	40	34	9.6	9.2	.9	103	0	84	24
FEB.												
15...	0925	6.6	330	0	30	9.3	8.5	.9	97	0	80	27
MAR.												
14...	0925	4.8	290	40	28	7.8	7.4	.9	86	0	71	24
APR.												
11...	0940	5.1	510	30	24	6.9	6.0	.9	77	0	63	20
MAY												
10...	--	4.8	260	30	32	9.5	9.1	1.0	104	0	85	23
JUNE												
06...	0935	4.9	380	60	31	9.4	8.5	.8	107	0	88	18
JULY												
05...	0935	7.0	2000	130	20	5.1	4.4	1.4	68	0	56	13
AUG.												
01...	1000	5.5	390	60	37	11	13	1.2	134	0	110	22
30...	0925	5.1	870	80	44	13	24	1.6	148	0	121	37
SEP.												
26...	1140	7.0	380	80	33	12	14	1.7	137	0	112	21

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)
NOV.												
01...	20	.0	.67	.02	.41	.20	.09	199	14	12	227	187
DEC.												
06...	15	.1	1.0	.03	.32	.04	.01	138	18	13	161	120
JAN.												
17...	16	.1	1.1	.01	.15	.02	.03	156	10	7	151	126
FEB.												
15...	14	.1	1.3	.02	.34	.05	.01	150	13	10	173	137
MAR.												
14...	13	.0	1.0	.00	.33	.04	.01	133	16	9	164	124
APR.												
11...	9.4	.2	.74	.01	.17	.03	.00	114	16	12	135	98
MAY												
10...	14	--	1.0	.02	.29	.04	.03	152	8	6	197	130
JUNE												
06...	13	.2	.77	.02	.17	.04	.02	142	8	4	175	143
JULY												
05...	6.7	.1	.49	.04	.29	.09	.03	94	59	51	170	127
AUG.												
01...	19	.2	1.1	.00	.19	.05	.03	180	7	4	219	161
30...	32	.4	2.1	.00	.03	.13	.08	240	26	20	290	232
SEP.												
26...	22	.3	1.5	.00	.20	.09	.06	185	8	10	220	173

01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.											
01...	160	44	339	8.0	11	.0	--	--	--	--	--
DEC.											
06...	100	33	234	7.5	3	.0	--	--	--	--	--
JAN.											
17...	120	40	287	7.8	3	.0	--	--	--	--	--
FEB.											
15...	110	34	259	7.5	2	.0	--	--	--	--	--
MAR.											
14...	100	31	233	7.7	6	.0	--	--	--	--	--
APR.											
11...	88	25	195	7.7	6	.0	--	--	--	--	--
MAY											
10...	120	34	258	7.5	6	.0	--	--	--	--	--
JUNE											
06...	120	28	260	7.5	7	.0	--	--	--	--	--
JULY											
05...	71	15	166	7.3	17	.0	10	20	1200	170	<.5
AUG.											
01...	140	28	321	7.7	9	.0	--	--	--	--	--
30...	160	42	423	7.7	6	.0	--	--	--	--	--
SEP.											
26...	130	19	360	8.0	8	.0	--	--	--	--	--

01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	---	---	8.0	8.5	3.0	3.5	---	---	0.0	0.0	1.5	4.0
2	13.0	14.0	8.0	9.0	---	---	5.5	4.5	0.5	1.0	3.5	6.0
3	12.0	14.5	10.0	11.0	---	---	2.0	2.0	---	---	---	---
4	12.0	14.5	---	---	4.5	4.5	---	---	---	---	---	---
5	11.0	15.0	---	---	3.5	3.5	3.5	4.5	3.0	3.0	5.5	6.0
6	13.5	15.5	7.0	8.0	4.5	5.5	---	---	2.0	3.0	6.0	6.0
7	---	---	6.5	7.0	6.0	5.5	---	---	3.0	3.5	5.5	5.5
8	---	---	8.0	8.5	3.0	2.0	0.0	0.5	4.0	4.0	6.5	7.0
9	13.5	13.5	9.0	9.0	---	---	0.0	0.5	2.0	2.0	6.0	7.0
10	10.5	11.0	8.0	8.5	---	---	0.0	0.5	---	---	---	---
11	8.5	10.0	---	---	5.0	5.0	0.0	1.0	---	---	---	---
12	10.0	11.0	---	---	4.0	3.0	0.5	1.0	0.0	0.5	7.0	8.5
13	10.0	11.5	8.0	8.0	3.5	4.5	---	---	0.5	1.5	7.0	10.0
14	---	---	8.0	7.0	4.0	4.5	---	---	0.5	2.0	8.5	8.5
15	---	---	6.0	7.0	3.5	3.0	0.5	1.0	1.5	3.0	6.5	6.5
16	9.0	9.0	3.0	3.5	---	---	1.0	1.5	3.0	3.0	7.0	9.0
17	9.5	10.0	3.0	4.0	---	---	1.5	3.0	---	---	---	---
18	8.5	9.5	---	---	0.5	0.5	3.0	4.5	---	---	---	---
19	8.5	8.0	---	---	0.5	1.5	4.0	4.5	---	---	5.0	5.0
20	6.5	8.0	4.0	5.0	2.0	3.0	---	---	1.5	2.0	4.5	6.5
21	---	---	4.0	4.0	3.0	3.0	---	---	3.0	3.0	4.5	6.0
22	---	---	2.0	3.0	3.5	3.5	0.5	1.0	3.0	4.0	5.0	5.5
23	8.0	9.0	---	---	---	---	4.0	4.5	3.0	4.0	4.0	6.0
24	10.0	11.5	---	---	---	---	3.5	3.0	---	---	---	---
25	11.0	12.0	---	---	---	---	3.0	3.5	---	---	---	---
26	10.0	11.0	---	---	4.5	4.5	2.0	3.5	3.0	3.5	8.0	8.0
27	8.5	10.0	6.0	5.5	4.5	4.0	---	---	1.0	2.0	6.5	9.0
28	---	---	5.5	6.0	4.0	4.5	---	---	1.0	2.0	6.5	9.0
29	---	---	5.0	5.5	2.0	2.0	2.0	0.5	---	---	7.0	9.0
30	10.0	11.0	3.5	3.5	---	---	0.0	0.5	---	---	8.0	8.5
31	8.5	9.0	---	---	---	---	0.0	0.0	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	---	---	13.0	14.0	18.0	20.5	---	---	22.0	23.0	---	---
2	9.5	9.5	13.5	15.5	---	---	23.5	24.5	22.0	23.0	---	---
3	8.5	9.0	15.5	16.0	---	---	22.0	23.0	21.0	23.0	---	---
4	8.0	8.5	14.0	15.0	16.5	17.0	---	---	---	---	---	---
5	6.5	7.0	---	---	16.5	19.5	23.0	23.0	---	---	24.5	26.5
6	6.5	8.0	---	---	18.5	21.0	21.5	23.0	21.0	24.5	24.0	25.0
7	---	---	10.5	14.5	20.0	23.0	---	---	22.0	24.5	21.5	23.0
8	---	---	12.0	13.0	20.0	23.0	---	---	23.5	25.0	---	---
9	6.0	8.0	11.5	13.5	---	---	22.0	24.5	24.5	26.5	---	---
10	8.5	9.0	13.0	16.0	---	---	21.5	24.0	25.5	28.0	18.0	19.5
11	6.5	8.0	15.5	17.0	24.0	25.5	21.0	23.0	---	---	17.0	19.5
12	6.0	7.0	---	---	22.0	23.0	20.5	20.5	---	---	17.0	19.5
13	6.0	8.0	---	---	22.0	23.0	17.0	19.5	23.5	25.5	17.0	19.5
14	---	---	12.0	14.0	20.0	22.0	---	---	21.5	25.5	17.0	19.5
15	---	---	12.0	13.0	19.5	21.5	---	---	21.5	23.0	---	---
16	10.0	11.5	10.5	13.5	---	---	19.0	21.0	20.5	22.0	---	---
17	12.0	13.5	13.0	14.5	---	---	19.0	21.5	20.0	23.0	15.0	17.0
18	12.0	14.5	13.0	13.0	18.5	19.5	20.0	22.0	---	---	16.5	18.0
19	14.0	16.5	---	---	16.5	18.0	20.0	23.5	---	---	15.0	17.0
20	---	---	---	---	20.5	20.0	20.5	23.5	20.5	23.5	14.5	16.0
21	---	---	11.5	12.0	18.5	22.0	---	---	21.0	22.0	13.5	15.0
22	---	---	11.5	14.5	21.0	22.0	---	---	21.0	22.0	---	---
23	17.0	18.5	12.0	13.0	---	---	19.5	23.0	20.0	21.5	---	---
24	16.0	17.0	11.5	14.0	---	---	20.0	23.5	---	---	14.5	15.5
25	13.5	14.0	13.5	14.0	20.5	21.5	21.0	23.5	---	---	14.0	15.5
26	13.5	12.0	---	---	21.0	23.0	21.0	21.5	---	---	14.0	15.5
27	11.5	10.0	---	---	21.0	22.0	21.0	23.5	---	---	15.5	17.0
28	---	---	---	---	21.0	22.0	---	---	---	---	17.0	18.5
29	---	---	14.0	16.5	21.5	21.5	---	---	---	---	---	---
30	12.0	13.5	16.0	19.0	---	---	21.0	23.0	---	---	---	---
31	---	---	17.0	19.5	---	---	22.0	24.0	---	---	---	---

01373860 MOODNA CREEK NEAR NEW WINDSOR, N.Y.

LOCATION.--Lat 41°27'32", long 74°01'27", Orange County, at bridge on State Highway 9W, 0.6 mi (1.0 km) upstream from mouth and 1.5 mi (2.4 km) south of New Windsor.

DRAINAGE AREA.--175 mi² (453 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 11...	0935	5.6	730	130	43	6.9	23	3.7	92	0	75
NOV. 08...	0855	4.6	360	70	38	6.5	20	3.5	90	0	74
DEC. 13...	0855	6.6	520	0	21	3.6	12	1.2	40	0	33
JAN. 24...	0845	4.4	750	70	22	3.9	12	1.4	47	0	39
FEB. 21...	0845	4.8	660	50	27	4.9	18	1.3	60	0	49
MAR. 21...	0910	3.1	430	70	23	4.2	12	1.2	51	0	42
APR. 18...	0900	1.5	240	40	27	4.1	12	1.2	55	0	45
MAY 16...	0845	4.0	1300	120	23	3.7	10	.9	54	0	44
JUNE 13...	0910	2.5	730	120	31	5.2	15	1.2	90	0	74
JULY 12...	0905	5.3	350	50	29	5.2	13	1.8	87	0	71
AUG. 08...	0845	7.0	370	140	33	5.8	25	2.2	111	0	91
SEP. 05...	0845	14	520	510	40	7.3	52	3.5	136	0	112

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NIT-RITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT. 11...	56	38	.2	1.3	.14	1.2	.39	.24	228	25	268
NOV. 08...	47	34	.1	.30	.05	.86	.27	.17	201	20	241
DEC. 13...	28	17	.0	.85	.00	.40	.08	.05	113	24	145
JAN. 24...	26	17	.0	.99	.00	.26	.14	.04	115	45	159
FEB. 21...	30	31	.4	.95	.02	.26	.16	.07	152	30	189
MAR. 21...	26	21	.0	.75	.00	--	.12	.05	119	41	167
APR. 18...	26	19	.1	.26	.03	.34	.10	.05	120	13	145
MAY 16...	22	15	.2	.55	.06	.36	.14	.04	108	40	166
JUNE 13...	19	21	.2	.72	.15	.18	.19	.12	144	19	200
JULY 12...	15	19	.2	1.5	.34	.03	.17	.13	139	6	179
AUG. 08...	34	29	.2	2.8	.01	.67	.40	.29	204	22	257
SEP. 05...	67	41	.7	.08	.04	.08	1.7	1.3	312	26	411

CONTINUED NEXT PAGE

01373060 MOODNA CREEK NEAR NEW WINDSOR, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
11...	200	140	60	376	7.2	23	.0	--	--	--
NOV.										
08...	187	120	60	355	7.3	25	.0	--	--	--
DEC.										
13...	113	67	36	197	7.1	6	.0	--	--	--
JAN.										
24...	129	71	32	204	7.5	10	.0	--	--	--
FEB.										
21...	156	88	38	271	7.5	13	.0	--	--	--
MAR.										
21...	121	75	33	209	7.3	11	.0	--	--	--
APR.										
18...	105	84	30	214	7.2	16	.0	--	--	--
MAY										
16...	125	73	28	182	7.1	16	.1	10	0	.6
JUNE										
13...	141	99	25	257	7.2	25	.1	10	0	<.5
JULY										
12...	126	96	22	250	7.4	22	.0	--	--	--
AUG.										
08...	201	110	15	334	6.9	69	.1	--	--	--
SEP.										
05...	320	130	18	536	6.7	139	--	0	90	<.5

01374085 HUDSON RIVER AT BEAR MOUNTAIN, N.Y.

LOCATION.--Lat 41°18'51", long 73°59'08", Rockland County, at south dock of Bear Mountain State Park, at Bear Mountain, and 0.4 mi (0.6 km) downstream from Bear Mountain Bridge.

DRAINAGE AREA.--12,521 mi² (32,429 km²).

PERIOD OF RECORD.--Chemical analyses, April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
11...	1020	.9	670	30	40	28	240	10	79	0	65
NOV.											
08...	0945	.6	560	40	27	7.8	35	2.5	69	0	57
DEC.											
13...	0945	5.7	840	0	21	4.0	6.4	1.2	55	0	45
JAN.											
24...	0935	4.9	1400	50	24	4.0	6.0	1.1	60	0	49
MAR.											
21...	0855	4.6	1800	80	22	4.1	6.2	1.2	60	0	49
APR.											
18...	0950	4.7	1800	40	22	3.5	4.9	1.1	56	0	46
MAY											
16...	0930	3.8	630	40	23	3.9	5.9	1.0	57	0	47
JUNE											
13...	0955	4.0	790	60	20	3.7	4.9	.8	56	0	46
JULY											
12...	0945	3.0	1110	70	20	3.9	6.4	1.2	59	0	48
AUG.											
08...	0925	2.6	470	50	24	6.1	21	2.2	70	0	57

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
11...	80	400	.1	.79	.00	.42	.13	.08	842	23	18
NOV.											
08...	31	57	.1	.84	.01	.49	.12	.07	199	19	16
DEC.											
13...	21	9.5	.0	.80	.00	.34	.06	.02	100	31	22
JAN.											
24...	19	8.4	.0	.85	.00	.32	.13	.03	101	57	49
MAR.											
21...	17	10	.0	.82	.00	.40	.12	.02	99	95	83
APR.											
18...	20	6.6	.0	.64	.03	.42	.08	.03	94	45	40
MAY											
16...	19	9.6	.2	.70	.00	.33	.07	.02	98	19	16
JUNE											
13...	15	7.5	.2	.57	.01	.11	.09	.03	86	37	30
JULY											
12...	14	8.2	.1	.75	.00	.25	.13	.04	89	42	38
AUG.											
08...	18	33	.1	.99	.01	.31	.10	.04	146	16	14

DATE	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
11...	958	778	220	150	1610	8.0	11	.1	--	--	--
NOV.											
08...	238	196	100	43	380	7.3	15	.0	--	--	--
DEC.											
13...	140	107	69	24	175	7.2	5	.0	--	--	--
JAN.											
24...	153	129	76	27	173	7.4	8	.0	--	--	--
MAR.											
21...	192	147	72	23	168	7.4	9	.0	--	--	--
APR.											
18...	144	113	69	23	157	7.5	11	.0	--	--	--
MAY											
16...	139	95	73	27	166	7.2	7	.0	10	40	<.5
JUNE											
13...	143	99	65	19	146	7.4	9	.0	0	20	<.5
JULY											
12...	153	101	66	18	163	7.4	10	.0	--	--	--
AUG.											
08...	174	138	85	28	272	7.2	14	.0	--	--	--

01374350 HUDSON RIVER AT VERPLANCK, N.Y.

LOCATION.--Lat 41°15'23", long 73°57'59" (revised), Westchester County, at pier at end of 6th Street in Verplanck and across the river from Tomkins Cove.

DRAINAGE AREA.--12,612 mi² (32,665 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT.												
05...	1030	1.6	1900	110	64	130	1000	45	78	0	64	300
NOV.												
01...	1010	1.2	900	90	5.5	80	620	25	78	0	64	170
DEC.												
06...	1035	5.4	1300	40	24	4.5	7.5	1.4	62	0	51	26
JAN.												
18...	1130	4.8	1200	10	24	4.6	8.0	1.1	63	0	52	22
FEB.												
15...	1035	4.8	1200	0	32	18	120	6.2	52	0	43	53
MAR.												
14...	1030	5.5	1100	50	22	4.3	9.2	1.0	60	0	49	21
APR.												
11...	1100	4.6	2000	70	22	3.8	6.1	1.2	58	0	48	22
MAY												
10...	1325	4.3	1200	40	26	9.5	50	2.8	62	0	51	31
JUNE												
06...	1035	4.3	1700	80	21	3.9	5.0	1.0	57	0	47	18
JULY												
05...	1040	1.5	1450	100	22	4.3	7.0	1.2	63	0	52	15
AUG.												
01...	1140	3.1	960	90	31	31	240	10	63	0	52	76
30...	1040	1.8	580	370	47	80	640	32	73	0	60	170
SEP.												
26...	1320	1.3	790	130	62	130	1300	48	78	0	64	300

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT.											
05...	1800	.3	.69	.00	.58	.22	.13	3380	50	43	3790
NOV.											
01...	1100	.2	.69	.00	.37	.16	.11	2040	26	23	2360
DEC.											
06...	11	.0	.72	.00	.41	.13	.05	114	30	26	151
JAN.											
18...	14	.0	.68	.02	.34	.11	.02	113	33	28	157
FEB.											
15...	220	.1	.79	.06	.35	.10	.02	483	32	26	539
MAR.											
14...	14	.1	1.0	.00	.33	.08	.04	112	21	16	152
APR.											
11...	8.7	.2	.76	.00	.24	.10	.03	101	55	48	165
MAY											
10...	88	.2	.79	.06	.07	.09	.03	246	35	29	330
JUNE											
06...	6.8	.2	.55	.02	.39	.11	.05	91	36	34	161
JULY											
05...	10	.2	.62	.02	.36	.01	.01	95	40	34	161
AUG.											
01...	410	.2	.69	.00	.25	.15	.07	836	34	29	1090
30...	1200	.5	.81	.00	.56	.33	.11	2210	150	133	2480
SEP.											
26...	2300	.4	.80	.00	.14	.14	.09	4180	2	2	5520

01374350 HUDSON RIVER AT VERPLANCK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
05...	3180	700	630	5960	7.5	26	.0	--	--	--	--
NOV.											
01...	2010	340	280	3830	7.5	21	.1	--	--	--	--
DEC.											
06...	118	78	27	191	7.0	7	.0	--	--	--	--
JAN.											
18...	132	79	27	196	7.5	9	.0	--	--	--	--
FEB.											
15...	456	150	110	908	7.5	9	.0	--	--	--	--
MAR.											
14...	115	73	23	192	7.2	11	.0	--	--	--	--
APR.											
11...	127	71	23	168	7.3	11	.0	--	--	--	--
MAY											
10...	250	100	53	450	7.1	7	.0	--	--	--	--
JUNE											
06...	115	69	22	159	6.8	12	.0	--	--	--	--
JULY											
05...	121	73	21	177	7.8	12	.0	0	30	11	<.5
AUG.											
01...	804	210	150	1620	7.1	14	.0	--	--	--	--
30...	2040	450	390	3900	7.0	28	.0	--	--	--	--
SEP.											
26...	3770	690	630	7860	7.4	9	.0	--	--	--	--

01376269 HUDSON RIVER AT PIERMONT, N.Y.

LOCATION.--Lat 41°02'34", long 73°53'48", Rockland County, at end of pier in Piermont, 0.3 mi (0.5 km) upstream from Sparkill Creek and 1.8 mi (2.9 km) downstream from Tappen Zee Bridge.

DRAINAGE AREA.--13,125 mi^2 (33,994 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 11...	1205	2.0	760	80	99	260	2000	86	83	0	68
NOV. 08...	1040	4.5	2500	120	48	92	700	25	67	0	55
DEC. 13...	1125	6.3	790	30	26	5.0	13	1.6	64	0	52
JAN. 24...	1115	5.3	1800	80	30	14	86	4.8	67	0	55
FEB. 21...	1100	5.2	1800	80	48	50	390	16	60	0	49
MAR. 21...	1030	5.6	2200	70	22	5.1	14	1.4	59	0	48
APR. 18...	1130	5.0	1800	30	22	4.5	13	1.6	56	0	46
MAY 16...	1100	4.4	1300	20	32	23	160	7.6	60	0	49
JUNE 13...	1130	1.3	860	100	37	55	430	18	70	0	57
JULY 12...	1100	.8	2300	120	43	75	580	24	66	0	54
AUG. 08...	1200	2.3	870	80	59	130	1000	44	71	0	58
SEP. 05...	1135	2.5	1200	140	82	240	1700	76	76	0	62

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)
OCT. 11...	540	3600	.5	.60	.05	.53	.23	.17	6630	23	18
NOV. 08...	180	1300	.2	.78	.03	.53	.19	.08	2390	102	91
DEC. 13...	26	19	.1	1.1	.00	.41	.20	.12	134	39	26
JAN. 24...	45	160	.1	1.2	.00	.41	.21	.08	384	52	44
FEB. 21...	120	690	.3	.83	.18	.34	.19	.09	1350	47	40
MAR. 21...	22	22	.0	1.4	.00	.53	.22	.07	128	50	42
APR. 18...	23	19	.1	1.2	.03	.74	.21	.10	122	68	62
MAY 16...	62	300	.2	.93	.15	.33	.16	.07	623	36	31
JUNE 13...	88	780	.2	.33	.02	.00	.13	.05	1450	36	29
JULY 12...	150	1000	.2	.72	.07	.34	.23	.08	1910	90	82
AUG. 08...	250	1900	.3	.80	.00	.29	.19	.11	3430	30	26
SEP. 05...	380	3000	.4	1.0	.00	.27	.20	.13	5520	27	21

01376269 HUDSON RIVER AT PIERMONT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
11...	7240	6120	1300	1200	11000	7.7	8	.0	4	20	<.5
NOV.											
08...	2760	2320	500	440	4460	7.2	28	.0	--	--	--
DEC.											
13...	166	131	86	33	230	7.2	7	.0	--	--	--
JAN.											
24...	413	345	130	78	705	7.3	11	.0	--	--	--
FEB.											
21...	1480	1230	330	280	2510	7.3	19	.1	--	--	--
MAR.											
21...	190	148	76	28	227	7.0	12	.0	--	--	--
APR.											
18...	174	135	73	28	208	7.3	12	.0	--	--	--
MAY											
16...	772	599	180	130	1180	7.1	14	.1	0	20	<.5
JUNE											
13...	1820	1350	320	260	2730	7.7	16	.1	0	30	<.5
JULY											
12...	2190	1700	420	360	3640	7.3	23	.0	--	--	--
AUG.											
08...	3960	3290	680	620	6090	7.1	11	.0	--	--	--
SEP.											
05...	6050	4980	1200	1100	9140	7.0	6	.0	10	30	<.5

01376510 HUDSON RIVER AT YONKERS, N.Y.

LOCATION.--Lat 40°55'00", long 73°54'41", Westchester County, at south end of dock at the Westchester County Joint Sewage Treatment Plant at Yonkers-New York City line.

DRAINAGE AREA.--13,183 mi² (34,144 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT.												
05...	0945	2.1	750	120	220	580	4800	200	108	0	89	1400
NOV.												
01...	0925	2.4	310	90	160	420	3300	120	106	0	87	880
DEC.												
06...	1050	5.3	1300	20	130	190	1600	64	100	0	82	360
JAN.												
18...	1015	4.0	670	130	150	330	2700	110	88	0	72	640
FEB.												
15...	--	4.0	870	120	150	370	3100	120	107	0	88	820
MAR.												
14...	1015	4.5	840	80	78	180	1600	61	74	0	61	400
APR.												
11...	1010	7.6	4200	160	28	11	62	6.0	130	0	107	46
MAY												
09...	1010	3.6	1400	140	190	270	2300	94	72	0	59	580
JUNE												
06...	1020	2.6	1800	70	42	61	480	20	67	0	55	94
JULY												
05...	1200	2.0	1050	70	22	6.6	42	2.9	59	0	48	26
AUG.												
01...	1300	1.0	860	140	170	460	3900	150	90	0	74	1000
30...	1210	2.4	1700	190	180	550	4100	166	93	0	76	1000
SEP.												
26...	1445	2.2	220	40	160	550	4300	120	90	0	74	1000

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	FIXED NON-FILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT.											
05...	8600	1.6	.72	.33	.83	.30	.20	15900	25	17	17800
NOV.											
01...	6200	.8	.57	.06	.53	.28	.28	11100	7	5	12700
DEC.											
06...	2800	.5	.90	2.4	1.3	--	--	5210	40	24	596
JAN.											
18...	4900	.8	.45	.01	.26	.12	.09	8880	42	32	10200
FEB.											
15...	5700	.8	.72	.48	.51	.80	.48	10300	23	15	11200
MAR.											
14...	2600	.4	1.1	.05	.36	.19	.09	4970	22	15	5690
APR.											
11...	90	.3	.01	.00	1.6	1.8	1.2	331	146	114	466
MAY											
09...	4200	.5	.48	.02	.38	.25	.12	7680	50	40	8340
JUNE											
06...	900	.2	.35	.05	.90	.29	.13	1640	56	49	1920
JULY											
05...	72	.2	.72	.09	.00	.16	.08	207	37	30	284
AUG.											
01...	6800	.7	.60	.00	.27	.23	.12	12500	32	26	16000
30...	7400	.3	1.2	.00	.25	.31	.17	13500	66	56	14600
SEP.											
26...	7500	.9	2.7	.00	.04	.42	.29	13700	23	0	14700

01376510 HUDSON RIVER AT YONKERS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 05...	14700	2900	2800	23600	7.5	11	.5	--	--	--	--
NOV. 01...	10700	2100	2000	17900	7.5	12	.5	0	30	0	<.5
DEC. 06...	506	1100	1000	10100	7.2	31	.3	--	--	--	--
JAN. 18...	8400	1700	1600	14600	7.3	9	.3	--	--	--	--
FEB. 15...	9550	1900	1800	16300	6.9	11	.4	--	--	--	--
MAR. 14...	4760	940	880	8470	7.3	15	.4	--	--	--	--
APR. 11...	376	120	9	586	7.0	53	1.8	--	--	--	--
MAY 09...	6640	1600	1500	12400	7.1	14	.3	--	--	--	--
JUNE 06...	1540	360	300	3030	6.9	20	.1	--	--	--	--
JULY 05...	219	82	34	403	7.0	13	.0	0	20	--	<.5
AUG. 01...	12100	2300	2200	19500	7.0	15	.0	--	--	--	--
30...	12100	2700	2600	22700	6.9	9	.0	--	--	--	--
SEP. 26...	12200	2700	2600	27900	7.0	6	.0	--	--	--	--

01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.

LOCATION.--Lat 41°02'39", long 73°59'18", Orange County, at bridge on Orangeburg Road (Veterans Memorial Drive), 300 ft (91 m) west (revised) of Hunt Road and 2 mi (3.2 km) west of Orangeburg.

DRAINAGE AREA.--45.8 mi² (118.6 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 11...	1120	5.0	1200	240	39	7.1	21	3.4	97	0	80
NOV. 08...	1045	5.0	10000	650	29	5.3	12	2.6	74	0	61
DEC. 13...	1045	3.3	820	0	31	5.2	29	1.9	69	0	57
JAN. 24...	1040	3.0	640	100	27	4.9	18	1.8	69	0	57
FEB. 21...	1015	4.0	1000	110	31	5.6	34	2.0	74	0	61
MAR. 21...	0945	2.1	1300	180	30	5.5	21	1.8	73	0	60
APR. 18...	1045	.7	470	120	27	4.8	18	1.5	65	0	53
MAY 16...	1020	1.2	640	160	30	4.9	16	1.5	73	0	60
JUNE 13...	1055	1.9	520	120	29	5.3	16	1.7	84	0	69
JULY 12...	1030	3.1	380	100	28	5.2	15	1.9	83	0	68
AUG. 08...	1130	1.1	280	60	29	5.2	16	1.9	85	0	70
SEP. 05...	1015	2.7	730	150	28	5.8	17	2.5	88	0	72

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)
OCT. 11...	34	36	.1	1.7	.00	.90	.06	.00	201	20	14
NOV. 08...	29	22	1.0	.68	.05	2.6	.52	.03	146	492	446
DEC. 13...	26	51	.0	1.2	.00	.42	.03	.00	187	14	7
JAN. 24...	24	32	.1	1.2	.00	.54	.05	.01	151	22	17
FEB. 21...	28	56	.7	.87	.02	.21	.07	.00	202	46	38
MAR. 21...	25	36	.0	1.0	.00	.37	.07	.00	162	48	39
APR. 18...	25	27	.1	.52	.04	.64	.04	.01	139	12	8
MAY 16...	24	28	.2	.55	.04	.28	.04	.00	145	12	9
JUNE 13...	22	26	.2	.32	.02	.06	.05	.01	145	12	9
JULY 12...	19	24	.2	.17	.09	.00	.07	.01	139	16	13
AUG. 08...	17	27	.2	.33	.00	.14	.04	.01	141	16	13
SEP. 05...	20	29	.5	1.3	.00	.05	.10	.04	155	22	15

01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 11...	246	182	130	47	353	7.3	14	.0	20	0	<.5
NOV. 08...	625	539	94	34	260	7.0	42	.0	--	--	--
DEC. 13...	210	165	99	42	337	7.0	8	.0	--	--	--
JAN. 24...	185	149	88	31	266	7.5	11	.0	--	--	--
FEB. 21...	264	219	100	40	378	7.5	9	.0	--	--	--
MAR. 21...	217	174	98	38	297	7.6	11	.0	--	--	--
APR. 18...	176	138	87	34	264	7.3	11	.0	--	--	--
MAY 16...	196	149	95	35	262	7.1	11	.0	0	0	<.5
JUNE 13...	200	140	94	25	268	7.6	10	.0	0	0	<.5
JULY 12...	196	136	91	23	266	7.5	12	.0	--	--	--
AUG. 08...	175	140	94	24	261	7.8	13	.0	--	--	--
SEP. 05...	214	162	94	22	295	8.0	17	.0	0	70	<.5

01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y.

LOCATION.--Lat 42°08'41", long 74°39'14", Delaware County, at gaging station at bridge on Fair Street at intersection with Main Street in Margaretville, and 1.6 mi (2.6 km) downstream from Dry Brook.

DRAINAGE AREA.--163 mi² (422 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
15...	1245	546	--	6.7	1.1	--	--	13	0	11	--
JUNE											
13...	1600	1230	--	6.2	1.2	--	--	17	0	14	--
JULY											
12...	1700	195	3.2	7.0	1.4	2.1	.5	20	0	16	7.3
AUG.											
13...	1330	51	--	8.9	1.7	--	--	26	0	21	--
SEP.											
10...	1100	29	--	9.0	1.8	--	--	26	0	21	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY										
15...	--	--	.40	.03	.15	.01	.02	.00	6	38
JUNE										
13...	--	--	.18	.01	.28	.58	.19	.03	116	150
JULY										
12...	2.3	.1	.14	.00	.05	.10	.01	.00	2	43
AUG.										
13...	--	--	.19	.00	.04	.10	.02	.02	30	58
SEP.										
10...	--	--	.20	.00	.05	.07	.01	.00	2	72

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY										
15...	21	11	49	6.7	9.0	11.4	99	.3	2.4	57
JUNE										
13...	20	6	56	7.0	17.0	8.4	87	4.5	8.0	B3000
JULY										
12...	23	7	62	7.0	18.0	9.2	98	.2	.9	B56
AUG.										
13...	29	8	84	6.7	21.0	9.0	101	2.5	.5	200
SEP.										
10...	30	9	81	7.0	15.0	9.2	92	.8	2.1	B260

B Results based on colony count outside the acceptable range (non-ideal colony count).

01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, N.Y.

LOCATION.--Lat 42°04'30", long 74°58'36", Delaware County, at gaging station 0.5 mi (0.8 km) downstream from Downsville Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mi (1.6 km) east of Downsville.

DRAINAGE AREA.--371 mi² (961 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
15...	1030	1170	--	7.1	1.3	--	--	12	0	10	--
JUNE											
14...	0830	275	--	5.7	1.2	--	--	10	0	8	--
JULY											
12...	0900	33	2.0	5.9	1.3	1.7	.6	15	0	12	8.0
AUG.											
13...	1515	33	--	6.2	1.4	--	--	14	0	11	--
SEP.											
10...	1315	33	--	5.6	1.4	--	--	14	0	11	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY										
15...	--	--	.40	.03	.05	.34	.00	.00	5	39
JUNE										
14...	--	--	.14	.01	.06	.11	.01	.00	0	36
JULY										
12...	2.5	.1	.20	.05	.05	.11	.01	.00	0	42
AUG.										
13...	--	--	.34	.00	.05	.33	.01	.01	6	50
SEP.										
10...	--	--	.41	.00	.01	.03	.01	.00	3	27

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY										
15...	23	13	53	6.5	7.5	12.3	103	.7	6.1	B1
JUNE										
14...	19	11	52	8.0	18.0	10.0	106	2.3	1.5	B2
JULY										
12...	20	8	54	6.7	10.0	9.6	86	.3	1.3	B2
AUG.										
13...	21	10	60	7.5	9.0	11.0	96	1.0	2.4	B1
SEP.										
10...	20	8	54	6.8	7.0	10.0	83	1.0	.9	B1

B Results based on colony count outside the acceptable range (non-ideal colony count).

01420500 BEAVER KILL AT COOKS FALLS, N.Y.

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, at gaging station 125 ft (38 m) downstream from highway bridge in Cooks Falls, and 5.5 mi (8.8 km) downstream from Willowemoc Creek.

DRAINAGE AREA.--241 mi² (624 km²).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 25...	1310	90	1.2	30	0	7.9	1.6	4.0	.6	18
NOV. 21...	1300	1160	2.2	50	0	4.0	1.2	1.4	.7	8
DEC. 22...	1300	1570	2.1	140	0	6.0	.8	4.1	.3	8
JAN. 25...	1345	740	2.0	110	20	4.9	.8	1.7	.4	8
FEB. 23...	0940	200	2.5	30	0	5.3	1.1	4.2	.4	11
MAR. 22...	1325	900	2.0	50	20	5.2	.8	1.5	.3	8
APR. 19...	1325	512	2.0	30	0	6.0	.9	1.6	.3	11
MAY 22...	1400	1500	1.9	100	0	6.0	.7	1.1	.2	7
JUNE 19...	0930	434	2.2	40	0	6.0	1.0	1.9	.4	12
JULY 24...	1410	160	1.4	0	0	6.8	1.0	4.0	.6	16
AUG. 23...	1355	180	2.3	10	0	6.5	1.0	3.4	.7	16
SEP. 20...	1245	130	2.1	40	10	6.0	1.2	4.6	.6	15

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT. 25...	0	15	10	6.3	.0	.16	.00	.25	.02	.01
NOV. 21...	0	7	8.5	2.5	.0	.40	.00	.64	.00	.00
DEC. 22...	0	7	10	8.2	.0	.34	.00	.24	.01	.00
JAN. 25...	0	7	9.0	2.5	.1	.45	.00	.57	.00	.00
FEB. 23...	0	9	8.9	7.5	.0	.44	.01	.13	.01	.00
MAR. 22...	0	7	8.8	3.0	.0	.35	.00	.35	.00	.00
APR. 19...	0	9	8.5	3.4	.0	.27	.00	.03	.00	.00
MAY 22...	0	6	8.4	1.6	.3	.23	.00	.10	.01	.00
JUNE 19...	0	10	8.0	3.5	.1	.15	.05	.06	.00	.01
JULY 24...	0	13	8.0	6.2	.1	.24	.00	.09	.01	.00
AUG. 23...	0	13	7.5	5.0	.1	.26	.00	.09	.02	.01
SEP. 20...	0	12	8.0	6.9	.4	.24	.00	.00	.01	.00

01420500 BEAVER KILL AT COOKS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.										
25...	42	0	0	45	33	26	12	74	7.2	7.5
NOV.										
21...	26	4	1	35	23	15	8	45	6.7	2.5
DEC.										
22...	37	9	3	45	33	18	11	61	7.0	2.0
JAN.										
25...	27	3	1	31	25	16	9	48	6.9	1.5
FEB.										
23...	38	2	0	41	30	18	9	70	6.8	.0
MAR.										
22...	27	0	0	34	22	16	10	47	6.9	1.0
APR.										
19...	29	6	2	36	25	19	10	49	6.9	11.5
MAY										
22...	25	3	0	35	21	18	12	40	6.6	11.0
JUNE										
19...	30	0	0	38	28	19	9	52	7.2	14.0
JULY										
24...	37	1	0	48	36	21	8	70	7.1	25.0
AUG.										
23...	36	0	0	38	32	20	7	64	7.4	21.0
SEP.										
20...	38	7	4	46	38	20	8	70	7.4	10.0

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
25...	10.2	84	2	610	92	.0	--	--	--	--
NOV.										
21...	12.9	94	3	570	87	.0	0	0	1	<.5
DEC.										
22...	10.8	78	0	--	--	.0	--	--	--	--
JAN.										
25...	10.6	75	2	830	<1	.0	--	--	--	--
FEB.										
23...	10.9	75	1	550	28	.0	--	--	--	--
MAR.										
22...	14.4	101	2	830	<1	.0	0	--	--	--
APR.										
19...	10.9	99	2	290	<1	.0	--	--	--	--
MAY										
22...	10.6	95	3	270	84	.0	--	--	--	--
JUNE										
19...	10.2	98	4	290	38	.0	--	--	--	--
JULY										
24...	8.9	106	5	2000	12	.0	--	--	--	--
AUG.										
23...	9.9	110	4	1500	32	.0	--	--	--	--
SEP.										
20...	11.8	104	3	680	--	.0	0	0	0	<.5

B Results based on colony count outside the acceptable range (non-ideal colony count).

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, temperature recorder at gaging station on left bank 3,000 ft (914 m) upstream from bridge on County Highway 28, at Fishs Eddy, 0.6 mi (1.0 km) upstream from Fish Creek, 4.2 mi (6.8 km) downstream from Beaver Kill and 11 mi (18 km) upstream from the confluence of East and West Branches at Hancock.

DRAINAGE AREA.--783 mi² (2,028 km²).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1973.
Water temperatures: November 1967 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 29.0°C Aug. 29-31, Sept. 2, 3; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 31.0°C July 16-18, 1968; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT.										
25...	1145	100	1.2	70	0	8.0	1.3	2.8	.7	20
NOV.										
21...	1130	1590	2.3	210	0	5.0	.9	1.5	.6	8
DEC.										
22...	1150	1360	2.3	0	0	5.6	1.0	4.4	.3	9
JAN.										
25...	1200	1170	2.4	200	30	5.0	.9	1.6	.4	8
FEB.										
23...	1345	500	2.3	50	20	7.5	1.2	3.0	.4	11
MAR.										
22...	1150	1760	2.0	60	10	6.0	1.0	1.6	.4	11
APR.										
06...	0930	6330	2.1	80	20	5.9	1.0	1.3	.4	10
19...	1210	1000	1.9	70	30	5.0	1.0	1.6	.4	12
MAY										
22...	1210	6200	1.6	40	20	5.5	1.0	1.2	.4	9
JUNE										
11...	1505	1250	2.0	120	40	6.0	1.0	1.7	.6	13
JULY										
24...	1245	680	1.5	0	0	6.9	1.2	2.3	.6	18
AUG.										
23...	1210	120	1.9	20	0	6.7	1.2	2.8	.7	17
SEP.										
20...	1130	220	2.1	70	20	6.1	1.2	3.4	.6	17

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT.										
25...	0	16	10	4.2	.0	.15	.00	.16	.00	.00
NOV.										
21...	0	7	9.5	2.1	.0	.33	.00	.02	.00	.00
DEC.										
22...	0	7	9.0	8.0	.0	.34	.00	.23	.00	.00
JAN.										
25...	0	7	8.0	2.6	.0	.40	.00	.12	.01	.00
FEB.										
23...	0	9	9.0	5.0	.0	.41	.00	.08	.01	.00
MAR.										
22...	0	9	9.0	3.0	.0	.33	.00	--	.00	.00
APR.										
06...	0	8	10	2.0	.1	.30	.00	--	--	--
19...	0	10	9.5	2.4	.1	.26	.00	.21	.00	.00
MAY										
22...	0	7	6.7	2.6	.1	.24	.01	.10	.01	.00
JUNE										
11...	0	11	10	2.1	.2	.20	.00	.08	.00	.00
JULY										
24...	0	15	8.0	3.6	.2	.21	.00	.05	.00	.00
AUG.										
23...	0	16	8.0	4.0	.2	.15	.00	.04	.01	.00
SEP.										
20...	0	14	8.0	4.5	.4	.19	.00	.06	.01	.00

CONTINUED NEXT PAGE

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	RESIDUE ON IGNI- TION (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
OCT.										
25...	46	1	6	43	30	27	11	76	7.6	8.6
NOV.										
21...	28	7	3	36	27	18	11	47	6.8	2.0
DEC.										
22...	37	3	0	43	34	19	12	76	7.3	1.5
JAN.										
25...	28	4	2	37	32	18	12	48	6.7	1.0
FEB.										
23...	36	3	0	40	35	24	15	63	7.0	.0
MAR.										
22...	30	1	0	34	25	19	10	50	7.1	2.5
APR.										
06...	29	--	--	--	--	19	11	47	6.6	3.5
19...	30	5	3	37	29	19	9	51	6.8	11.0
MAY										
22...	25	2	1	33	26	18	10	45	6.4	11.0
JUNE										
11...	31	3	2	38	26	19	8	48	6.9	23.0
JULY										
24...	34	1	0	46	41	22	7	64	7.0	23.5
AUG.										
23...	35	0	0	45	34	22	8	62	6.9	19.5
SEP.										
20...	36	2	0	46	36	20	6	64	7.3	15.0

DATE	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
25...	9.4	80	1	170	B2	.0	--	--	--	--
NOV.										
21...	11.2	82	3	300	24	.0	10	20	1	<.5
DEC.										
22...	10.9	78	0	--	--	.0	--	--	--	--
JAN.										
25...	12.2	87	0	56	<1	.0	--	--	--	--
FEB.										
23...	12.4	86	3	B10	<1	.0	--	--	--	--
MAR.										
22...	13.3	98	0	42	<1	.0	--	--	--	--
APR.										
06...	--	--	6	--	--	.0	--	--	--	--
19...	11.8	108	2	B16	<1	.0	--	--	--	--
MAY										
22...	11.1	102	3	300	B3	.0	--	--	--	--
JUNE										
11...	8.4	99	4	--	--	.0	--	--	--	--
JULY										
24...	9.3	109	9	B2300	31	.0	--	--	--	--
AUG.										
23...	9.4	102	3	460	28	.0	--	--	--	--
SEP.										
20...	10.4	104	4	1440	--	.0	0	0	0	<.5

B Results based on colony count outside the acceptable range (non-ideal colony count).

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	11.0	6.0	5.5	1.5	0.0	4.5	3.5	0.0	0.0	0.0	0.0
2	15.5	11.0	8.0	6.0	3.0	1.0	3.5	3.0	0.0	0.0	0.0	0.0
3	16.5	13.0	9.5	8.0	3.0	1.5	3.0	2.0	1.5	0.0	0.0	0.0
4	17.0	14.5	9.0	7.0	2.0	1.5	2.0	1.0	2.0	1.0	3.0	0.0
5	17.0	14.0	7.0	6.5	4.0	1.5	3.0	1.5	3.0	2.0	3.5	0.5
6	19.0	15.5	7.0	5.0	5.0	4.0	2.0	0.0	2.0	0.5	4.0	3.5
7	17.0	14.5	7.0	5.0	4.0	1.0	0.0	0.0	3.0	2.0	5.0	3.5
8	14.5	11.5	8.5	7.0	1.5	0.5	0.0	0.0	2.0	1.0	6.0	4.5
9	12.0	9.0	8.0	6.0	4.0	1.5	0.0	0.0	1.0	0.0	5.5	3.0
10	10.5	8.0	9.0	6.0	4.5	4.0	1.0	0.0	0.0	0.0	5.5	3.5
11	11.0	7.0	6.5	6.5	4.0	1.5	2.0	0.0	0.0	0.0	5.0	4.5
12	10.0	9.5	6.5	6.5	1.5	0.5	0.0	0.0	0.0	0.0	6.5	5.0
13	10.5	8.5	6.5	5.5	3.0	0.5	0.0	0.0	1.0	0.0	6.5	5.0
14	9.5	6.5	6.0	5.5	2.0	1.5	0.0	0.0	1.0	0.0	5.0	3.5
15	9.5	6.5	5.5	3.5	1.5	0.5	0.0	0.0	0.0	0.0	5.0	4.0
16	6.5	5.5	3.5	2.0	0.5	0.0	0.0	0.0	3.0	0.0	7.0	4.5
17	9.0	6.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	8.5	6.0
18	7.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0	1.0	1.0	6.0	1.5
19	5.5	3.5	2.0	1.5	0.5	0.0	0.0	0.0	1.0	1.0	2.0	1.0
20	5.0	1.5	3.0	1.5	1.0	0.5	3.0	0.0	1.0	1.0	4.0	1.5
21	5.0	2.0	1.5	1.0	1.5	1.5	2.0	0.0	1.0	1.0	4.5	1.0
22	6.0	4.5	1.0	0.0	3.0	1.5	2.0	0.0	1.0	0.5	4.0	2.0
23	8.0	6.0	0.0	0.0	3.5	3.0	1.0	0.0	0.5	0.5	5.0	0.5
24	10.0	9.5	1.5	0.0	4.0	3.5	1.5	1.0	0.5	0.0	6.5	1.5
25	9.5	6.5	3.0	1.0	4.0	3.5	1.0	0.0	0.0	0.0	6.0	3.5
26	8.5	5.0	4.5	3.0	3.5	3.5	3.0	0.5	0.0	0.0	6.5	5.0
27	8.0	5.0	4.0	3.0	3.5	2.0	2.0	1.5	0.0	0.0	6.0	4.5
28	9.5	6.5	4.0	3.5	2.0	1.0	3.0	2.0	0.0	0.0	9.5	4.5
29	10.0	9.0	4.0	2.0	1.0	0.0	2.0	0.0	---	---	8.0	5.0
30	9.0	9.0	2.0	0.0	1.5	0.0	0.0	0.0	---	---	6.5	5.5
31	6.5	5.0	---	---	4.0	1.5	0.0	0.0	---	---	9.5	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	14.0	9.5	16.0	13.0	20.5	18.0	26.0	23.0	29.0	23.5
2	8.0	6.5	14.5	12.0	19.0	14.0	21.0	18.5	24.0	21.5	29.0	24.5
3	6.5	5.5	14.5	13.5	17.0	13.5	21.5	19.5	23.5	20.0	29.0	25.5
4	6.0	5.0	13.5	10.0	18.0	15.0	23.5	19.5	25.5	20.5	28.0	25.0
5	5.0	4.5	10.0	8.5	21.0	15.5	23.0	17.0	26.5	21.0	25.5	23.5
6	4.5	3.5	13.0	7.0	22.0	18.0	22.0	18.5	26.0	21.0	24.0	21.0
7	8.0	4.0	16.0	9.0	18.0	15.0	24.0	18.5	28.0	21.5	21.0	19.0
8	6.5	5.0	14.5	10.0	18.5	14.5	25.5	20.0	27.0	24.0	20.5	18.0
9	8.0	3.5	11.0	9.5	19.0	15.0	26.0	21.5	28.5	24.5	19.5	16.5
10	6.0	5.0	13.0	10.5	20.5	15.5	25.0	21.0	28.5	25.5	20.5	15.5
11	5.0	3.5	14.5	11.5	22.0	16.5	24.5	21.0	28.0	25.0	19.0	16.5
12	5.5	3.0	11.5	9.5	23.0	17.0	21.5	18.0	26.0	24.0	18.5	15.0
13	6.0	2.0	10.0	9.0	20.0	18.0	20.5	16.5	26.0	22.0	19.5	15.0
14	8.0	3.0	10.5	8.5	20.5	15.5	24.0	18.5	23.5	21.5	16.5	16.0
15	9.5	4.0	10.0	9.0	20.0	15.5	22.0	20.0	22.0	20.5	19.0	15.5
16	11.0	5.5	13.5	8.5	18.5	16.0	25.0	19.0	23.5	19.0	16.5	15.0
17	10.0	11.5	11.0	9.5	21.5	15.5	25.0	19.5	25.0	20.5	18.0	14.0
18	13.5	10.5	9.5	7.0	19.5	15.0	26.0	20.5	25.0	21.0	17.0	15.5
19	13.5	11.0	11.0	7.0	20.0	14.5	25.5	20.5	24.5	21.5	19.0	13.5
20	16.0	11.0	10.0	9.0	21.5	18.0	25.0	21.5	22.0	20.5	16.0	14.0
21	15.0	11.5	10.0	9.5	21.0	19.0	22.0	21.0	23.0	19.5	16.0	12.0
22	17.0	13.0	13.5	9.5	20.0	18.0	25.5	20.0	21.5	19.5	14.0	12.0
23	16.5	15.0	11.5	9.5	22.0	17.0	28.0	21.0	22.0	17.0	18.5	13.0
24	15.5	13.0	11.5	9.5	21.5	19.5	28.0	22.0	23.5	19.5	17.0	15.5
25	14.5	10.5	14.0	10.5	23.5	18.5	26.0	23.0	25.0	20.5	16.5	15.5
26	13.5	10.5	14.5	12.0	23.0	19.5	25.0	23.0	25.5	21.5	18.0	15.0
27	10.5	9.5	13.5	11.5	23.5	19.5	26.5	23.0	25.5	23.0	19.5	15.5
28	10.0	8.5	12.0	11.0	23.0	20.0	28.5	23.0	28.0	23.5	20.0	17.0
29	8.5	7.0	15.5	12.0	20.5	15.5	26.5	24.5	29.0	24.5	18.5	16.5
30	11.5	6.0	16.0	13.0	19.5	15.0	28.0	17.0	29.0	25.0	18.0	14.0
31	---	---	15.5	14.0	---	---	28.0	23.5	29.0	25.0	---	---

01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.

LOCATION.--Lat 41°57'10", long 75°16'37", Delaware County, at former gaging station at bridge on State Highway 97 in Hancock and 1.2 mi (1.9 km) upstream from confluence with West Branch.

DRAINAGE AREA.--838 mi^2 (2,170 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY 16...	1230	3800	--	6.5	1.0	--	--	10	0	8	--
JUNE 12...	1100	1430	--	5.7	1.0	--	--	13	0	11	--
JULY 10...	1210	E760	1.6	6.6	1.2	2.2	.5	16	0	13	8.5
AUG. 15...	1100	278	--	7.6	1.4	--	--	19	0	16	--
SEP. 12...	1115	165	--	8.4	1.5	--	--	22	0	18	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY 16...	--	--	.20	.00	.03	.10	.01	.00	3	37
JUNE 12...	--	--	.19	.01	.17	.10	.01	.00	0	39
JULY 10...	3.0	.1	.12	.00	.05	.07	.01	.00	0	42
AUG. 15...	--	--	.17	.00	.03	.09	.00	.00	4	44
SEP. 12...	--	--	.05	.00	.12	.15	.04	.02	6	75

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)
MAY 16...	20	12	48	6.9	11.5	11.4	106	.4	1600	250
JUNE 12...	18	8	52	7.9	23.0	8.8	104	.9	160	--
JULY 10...	21	8	71	7.5	24.0	9.1	108	2.1	200	B65000
AUG. 15...	25	9	67	7.0	21.0	8.0	90	.6	330	B180
SEP. 12...	27	9	86	7.6	16.0	9.5	97	.4	720	840

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

01422735 WEST BRANCH DELAWARE RIVER ABOVE WALTON, N.Y.

LOCATION.--Lat 42°09'18", long 75°06'40", Delaware County, 0.1 mi (0.2 km) north of River Road opposite roadside park, 0.6 mi (1.0 km) upstream from Walton, 1.5 mi (2.4 km) upstream from East Brook and 2.1 mi (3.4 km) upstream from gaging station (01423000) at Walton.

DRAINAGE AREA.--273 mi² (707 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY 15...	1500	E1240	--	9.3	1.7	--	--	17	0	14	--
JUNE 13...	0950	401	--	9.7	2.3	--	--	28	0	23	--
JULY 12...	1320	223	3.1	10	2.8	4.1	1.0	31	0	25	9.3
AUG. 14...	1000	81	--	12	3.2	--	--	37	0	30	--
SEP. 10...	1630	51	--	12	3.1	--	--	28	3	28	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY 15...	--	--	.60	.03	.15	.00	.02	.00	7	58
JUNE 13...	--	--	.78	.01	.30	.20	.04	.02	11	81
JULY 12...	5.4	.2	.99	.00	.09	.21	.03	.00	10	73
AUG. 14...	--	--	.90	.01	.07	.00	.02	.02	3	83
SEP. 10...	--	--	.73	.00	.01	.22	.02	.01	3	69

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY 15...	30	16	66	6.9	10.0	11.1	99	.8	3.3	140
JUNE 13...	34	11	90	7.0	19.0	8.0	87	1.3	4.7	B2000
JULY 12...	37	11	108	7.6	18.0	10.2	108	1.1	1.8	460
AUG. 14...	43	13	102	7.0	20.0	9.4	103	.0	1.7	B20
SEP. 10...	43	15	134	8.4	21.0	12.8	144	1.9	1.3	B14

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

01423010 WEST BRANCH DELAWARE RIVER AT BEERSTON, N.Y.

LOCATION.--Lat 42°07'43", long 75°09'39", Delaware County, at bridge on State Highway 10 in Beerston, at upper end of Cannonsville Reservoir and 4.7 mi (7.6 km) downstream from gaging station (01423000) at Walton.

DRAINAGE AREA.--351 mi^2 (909 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY 16...	0830	E1800	--	7.2	1.5	--	--	15	0	12	--
JUNE 13...	1200	E560	--	7.9	1.8	--	--	21	0	17	--
JULY 11...	1745	E320	3.3	8.8	2.1	3.4	1.0	25	0	21	9.0
AUG. 14...	1400	E100	--	11	2.8	--	--	33	0	27	--
SEP. 11...	1015	E50	--	11	2.8	--	--	34	0	28	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY 16...	--	--	.40	.00	.08	.12	.06	.03	14	54
JUNE 13...	--	--	.49	.01	.11	.12	.08	.05	22	75
JULY 11...	4.1	.1	.55	.01	.14	.11	.07	.05	2	60
AUG. 14...	--	--	.35	.00	.14	.23	.35	.33	2	67
SEP. 11...	--	--	.28	.00	.06	.20	.26	.25	14	97

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY 16...	24	12	58	6.9	7.0	11.4	95	1.2	1.9	370
JUNE 13...	27	10	73	6.8	17.0	8.0	83	.9	3.7	B1000
JULY 11...	31	10	92	7.6	20.0	9.4	103	.5	.4	B40
AUG. 14...	39	12	107	7.1	19.0	7.8	85	1.2	2.2	B160
SEP. 11...	39	11	142	6.2	14.0	8.1	79	1.2	3.1	B6

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, temperature recorder at gaging station on right bank at Stilesville, 0.5 mi (0.8 km) upstream from Cold Spring Creek, 1.4 mi (2.3 km) downstream from Cannonsville Dam, and 2.0 mi (3.2 km) northeast of Deposit.

DRAINAGE AREA.--456 mi^2 (1,181 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1973. Water temperatures: October 1962 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 24.0°C July 10; minimum, 1.0°C Dec. 19, 20, Feb. 24, 25, 27, Mar. 1.

Period of record:
Water temperatures: Maximum, 30.5°C July 2, 1963; minimum, freezing point on many days during winter periods, most years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
MAY											
16...	0950	1880	--	7.9	1.6	--	--	14	0	11	--
JUNE											
12...	1730	380	--	7.3	1.5	--	--	17	0	14	--
JULY											
10...	1630	655	2.2	7.8	1.6	2.6	.8	19	0	16	8.8
AUG.											
14...	1545	31	--	8.0	2.0	--	--	19	0	16	--
SEP.											
11...	1215	1315	--	6.8	1.8	--	--	16	0	13	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
MAY										
16...	--	--	.60	.03	.10	.31	.03	.01	4	50
JUNE										
12...	--	--	.12	.01	.14	.79	.02	.00	1	51
JULY										
10...	3.2	.2	.16	.00	.25	.18	.03	.01	4	50
AUG.										
14...	--	--	.53	.00	.27	.28	.03	.01	17	58
SEP.										
11...	--	--	.76	.00	.04	.05	.03	.00	3	74

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
MAY										
16...	26	15	99	--	9.0	11.5	102	.8	9.6	B8
JUNE										
12...	24	10	68	9.0	22.0	8.4	98	--	3.2	B100
JULY										
10...	26	10	72	8.5	27.0	8.6	107	1.1	4.4	48
AUG.										
14...	28	13	86	7.7	14.0	11.0	108	.6	1.4	B10
SEP.										
11...	24	11	75	6.8	7.0	9.5	79	.8	2.0	17

B Results based on colony count outside the acceptable range (non-ideal colony count).

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	10.0	9.5	4.5	3.5	3.0	3.0	3.0	3.0	3.5	1.0
2	9.0	8.5	9.5	8.5	4.5	2.0	3.0	3.0	3.0	2.0	3.5	2.0
3	9.0	9.0	10.0	9.0	4.0	3.5	3.0	3.0	2.0	2.0	2.0	2.0
4	9.0	9.0	10.0	9.0	4.0	3.5	3.0	3.0	2.0	2.0	2.0	2.0
5	10.0	9.0	9.0	9.0	4.5	3.5	3.0	3.0	2.0	2.0	2.0	2.0
6	11.5	9.0	10.0	8.0	5.5	4.5	3.0	3.0	2.0	2.0	2.0	2.0
7	10.0	9.5	10.0	7.0	4.5	3.0	3.0	3.0	2.0	2.0	2.0	2.0
8	10.0	8.0	9.5	9.0	3.0	2.0	3.0	2.0	2.0	2.0	3.0	2.0
9	10.0	9.0	9.5	8.0	4.5	3.0	2.0	2.0	2.0	2.0	3.0	2.0
10	10.5	9.5	10.0	8.0	4.5	4.0	2.0	1.5	2.0	2.0	2.0	1.5
11	10.5	10.0	8.5	8.0	4.0	2.0	1.5	1.5	3.0	2.0	1.5	1.5
12	10.5	10.5	8.5	8.0	2.0	1.5	1.5	1.5	3.0	2.0	1.5	1.5
13	11.0	10.5	8.5	8.0	3.0	1.5	1.5	1.5	3.0	2.0	2.0	1.5
14	11.0	11.0	8.0	5.5	3.5	2.0	1.5	1.5	3.0	2.0	2.0	1.5
15	11.5	11.0	5.5	5.5	3.0	2.0	1.5	1.5	2.0	2.0	2.0	1.5
16	11.5	11.0	6.0	5.0	2.0	1.5	2.0	1.5	2.0	2.0	2.0	1.5
17	11.5	11.5	6.0	4.5	1.5	1.5	2.0	2.0	2.0	1.5	3.0	2.0
18	12.0	11.5	6.0	5.5	1.5	1.5	2.0	2.0	2.0	1.5	3.0	3.0
19	12.0	11.5	6.0	5.5	1.5	1.0	2.0	2.0	2.0	1.5	3.0	2.0
20	12.0	11.5	5.5	5.0	2.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0
21	12.0	11.5	5.0	4.5	2.0	2.0	2.0	2.0	2.0	1.5	3.0	3.0
22	12.0	11.5	5.0	4.0	3.0	2.0	2.0	2.0	1.5	1.5	3.0	3.0
23	11.5	11.0	4.5	4.0	3.0	2.0	2.0	2.0	1.5	1.5	3.0	3.0
24	11.0	11.0	5.0	4.5	3.0	3.0	2.0	2.0	1.5	1.0	3.5	3.0
25	11.0	11.0	5.5	4.5	3.0	3.0	2.0	2.0	2.0	1.0	3.0	3.0
26	11.0	11.0	5.5	5.0	3.0	3.0	2.0	2.0	2.0	1.5	3.0	3.0
27	11.0	11.0	5.5	4.5	3.0	3.0	2.0	2.0	2.0	1.0	3.0	2.0
28	11.0	10.5	5.0	4.5	3.0	3.0	2.0	2.0	3.0	1.5	3.0	2.0
29	10.5	10.0	5.0	4.5	3.0	2.0	2.0	2.0	---	---	3.0	2.0
30	10.0	10.0	4.5	3.5	3.0	2.0	2.0	2.0	---	---	3.0	2.0
31	10.0	9.5	---	---	3.0	3.0	3.0	2.0	---	---	3.0	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.0	2.0	9.0	6.0	13.0	12.0	17.0	16.0	15.0	9.0	6.5	6.0
2	3.0	2.0	9.0	8.0	15.0	13.0	18.5	17.0	14.0	9.0	6.5	6.0
3	2.0	2.0	9.0	7.0	16.0	15.0	19.5	19.0	16.5	12.0	15.0	6.0
4	2.0	2.0	8.5	7.0	16.0	15.0	21.0	19.5	18.5	11.5	11.0	6.0
5	3.0	2.0	7.0	6.0	16.5	15.0	21.5	20.5	19.5	11.5	8.0	6.5
6	3.0	3.0	8.5	6.5	19.5	16.5	21.5	19.5	19.5	12.0	9.0	6.5
7	3.0	3.0	10.0	8.0	18.5	16.0	21.5	19.5	18.5	11.0	9.0	6.5
8	3.0	3.0	9.0	8.5	20.5	18.0	23.5	20.5	18.5	11.0	7.0	6.5
9	3.0	3.0	9.5	9.0	20.5	16.5	23.5	21.5	19.5	11.0	7.0	6.5
10	3.0	3.0	10.5	9.0	20.5	18.0	24.0	23.0	17.0	11.0	7.0	6.5
11	3.0	3.0	9.0	8.0	21.0	20.0	23.5	22.0	14.5	8.0	7.0	6.5
12	3.0	3.0	8.0	7.0	22.0	19.0	23.0	21.5	14.5	10.5	7.0	6.5
13	3.0	3.0	8.5	8.0	21.0	19.0	21.5	19.5	16.0	9.5	7.0	7.0
14	3.5	3.0	9.0	8.5	21.0	20.0	19.5	18.5	11.5	9.5	8.0	7.0
15	4.0	3.0	9.5	9.0	21.5	19.0	20.5	19.5	10.5	9.5	8.0	6.5
16	4.0	3.5	10.0	9.5	21.0	19.5	23.0	20.0	13.5	9.5	6.5	6.5
17	3.5	3.0	9.5	9.5	21.5	19.5	23.5	20.5	16.0	9.5	9.5	6.5
18	4.0	3.5	9.5	8.5	20.5	19.5	23.0	20.0	16.5	10.0	10.0	8.5
19	5.0	3.5	9.5	9.0	21.5	19.5	22.0	19.0	14.0	10.0	8.0	6.0
20	6.5	4.5	9.5	9.5	21.5	19.5	20.5	11.5	15.5	9.0	6.5	6.0
21	7.0	5.5	10.0	9.5	20.5	18.5	18.0	9.0	13.5	9.5	6.5	6.0
22	7.0	5.0	10.5	9.5	19.5	16.5	22.0	18.0	10.5	9.0	6.5	6.5
23	5.5	4.0	11.0	10.0	20.5	15.5	21.5	9.0	15.5	7.0	6.5	6.5
24	5.5	4.5	11.0	11.0	21.0	19.0	9.0	8.0	11.0	6.5	7.0	6.5
25	8.0	5.0	11.5	11.0	22.0	20.0	10.0	8.0	7.0	6.0	7.0	6.5
26	8.0	6.5	11.5	11.5	22.0	20.0	11.5	8.0	6.5	6.0	8.0	7.0
27	8.0	8.0	12.0	11.5	21.0	16.5	19.0	11.0	10.5	6.0	8.0	6.5
28	8.0	6.5	12.0	12.0	22.0	21.0	20.0	10.5	13.5	6.0	9.5	7.0
29	7.0	5.0	12.0	11.0	21.0	18.0	12.0	8.0	16.5	9.5	9.5	7.0
30	6.0	5.5	13.5	11.0	18.0	16.0	14.0	8.0	16.5	9.0	8.0	7.0
31	---	---	13.0	12.0	---	---	16.0	8.0	11.5	6.0	---	---

01425665 OQUAGA CREEK AT ARCTIC, N.Y.

LOCATION.--Lat 42°11'05", long 75°25'27", Broome County, at bridge on North Sanford Road, 0.3 mi (0.5 km) upstream from small tributary, 0.5 mi (0.8 km) west of Arctic, 1.3 mi (2.1 km) upstream from gaging station (01425675) near North Sanford and 2.6 mi (4.2 km) northeast of North Sanford.

PERIOD OF RECORD.--Chemical analyses: March to September 1971, April to August 1973.

REMARKS.--Analyses of miscellaneous samples published for 1972 water year.

CHEMICAL ANALYSES, APRIL TO AUGUST 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
APR.											
04...	1410	12	3.2	170	50	4.6	.8	1.3	.4	7	0
JUNE											
13...	1230	1.7	3.0	480	90	5.3	1.2	1.6	.4	14	0
AUG.											
01...	1115	.04	3.9	240	70	6.0	1.3	2.0	.4	19	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR.											
04...	6	10	1.3	.0	.10	25	15	9	38	6.6	2.5
JUNE											
13...	11	7.5	1.3	.2	.08	28	18	7	50	6.8	16.0
AUG.											
01...	16	4.5	1.5	.2	.07	29	20	5	52	6.9	18.0

01425670 OQUAGA CREEK TRIBUTARY AT ARCTIC, N.Y.

LOCATION.--Lat 42°10'56", long 75°25'16" Broome County, 0.2 mi (0.3 km) upstream from mouth, 0.4 mi (0.6 km) southwest of Arctic, 0.4 mi (0.6 km) downstream from bridge on East Afton Road, and 2.5 mi (4.0 km) northwest of North Sanford.

PERIOD OF RECORD.--Chemical analyses: March to September 1971, April to August 1973.

REMARKS.--Analyses of miscellaneous samples published for 1972 water year.

CHEMICAL ANALYSES, APRIL TO AUGUST 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
APR.											
04...	1635	57	2.6	3200	70	4.0	.6	2.2	.7	6	0
JUNE											
13...	1300	5.1	3.1	580	160	6.6	1.7	2.8	.7	21	0
AUG.											
01...	1205	.24	4.3	410	50	9.1	2.3	4.3	.6	33	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR.											
04...	5	12	3.9	.2	8.0	65	13	8	41	6.2	1.5
JUNE											
13...	17	8.0	2.7	.2	.21	37	23	6	65	7.1	16.0
AUG.											
01...	27	7.5	4.0	.2	.11	49	32	5	86	7.3	17.0

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.

LOCATION.--Lat 42°10'28", long 75°26'25", Broome County, temperature recorder at gaging station on left bank 20 ft (6 m) downstream from culvert on North Sanford Road, 0.2 mi (0.3 km) upstream from outlet of Stilson Pond, 1.5 mi (2.4 km) north of North Sanford, and 4.1 mi (6.6 km) upstream from Dry Brook.

DRAINAGE AREA.--4.71 mi^2 (12.2 km^2).

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 19.5°C Aug. 9-12, 29, Sept. 3; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 21.0°C June 30, July 1, 1971 and July 23, 24, 1972; minimum, freezing point on many days during winter periods.

REMARKS: Water temperature unreliable Dec. 13 to Jan. 18, July 17 to Aug. 1.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
04...	0920	.32	4.7	70	0	11	3.2	3.7	.6	42	0
JAN.											
19...	0930	3.0	3.7	260	20	6.2	1.5	4.0	.6	14	0
24...	1700	11	2.8	170	40	5.8	1.1	1.7	.4	9	0
MAR.											
01...	0815	1.3	4.4	80	0	7.5	1.8	2.8	.5	18	0
APR.											
04...	1305	30	3.2	80	30	4.4	1.0	1.8	.4	8	0
MAY											
09...	0930	6.5	3.2	25	20	5.0	1.3	2.0	.4	14	0
JUNE											
13...	1130	4.5	3.4	450	40	6.6	1.8	2.2	.5	21	0
AUG.											
01...	1045	.51	4.0	380	40	9.3	2.5	3.2	.6	35	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.											
04...	34	9.2	2.9	.1	.00	56	41	6	96	7.3	7.0
JAN.											
19...	11	9.0	7.0	.0	.20	40	22	10	69	7.0	1.0
24...	7	8.9	3.0	.0	.20	29	19	12	48	7.1	1.0
MAR.											
01...	15	9.5	4.0	.0	.20	40	26	11	69	7.0	.0
APR.											
04...	7	10	2.5	.1	.09	28	15	9	43	6.5	2.0
MAY											
09...	11	8.0	2.3	.2	.04	29	18	6	52	7.3	9.0
JUNE											
13...	17	7.5	1.5	.3	.12	35	24	7	60	7.2	15.0
AUG.											
01...	29	5.2	2.4	.2	.15	45	34	5	83	7.5	18.0

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.0	5.5	5.5	5.0	5.0	---	---	0.5	0.5	0.0	0.0
2	7.0	6.0	6.5	5.5	5.0	5.0	---	---	0.5	0.5	0.0	0.0
3	8.5	6.5	7.0	6.5	5.0	5.0	---	---	0.5	0.0	0.0	0.0
4	9.0	7.0	7.0	7.0	5.0	5.0	---	---	0.0	0.0	0.0	0.0
5	9.5	6.5	7.0	7.0	5.0	5.0	---	---	0.5	0.0	0.0	0.0
6	10.0	9.0	7.0	6.5	5.0	4.5	---	---	0.5	0.5	0.5	0.0
7	10.0	10.0	6.5	6.5	4.5	4.5	---	---	0.5	0.5	1.0	0.5
8	10.0	9.0	6.5	6.5	4.5	4.5	---	---	0.5	0.5	3.0	1.0
9	9.0	7.0	6.5	6.5	4.5	4.5	---	---	0.5	0.5	3.0	1.5
10	7.0	6.0	6.5	6.5	4.5	4.5	---	---	0.5	0.5	3.0	2.0
11	6.0	6.0	6.5	6.5	4.5	4.5	---	---	0.5	0.5	3.0	2.0
12	6.5	6.0	6.5	6.5	4.5	4.5	---	---	0.5	0.5	2.0	2.0
13	6.5	6.5	6.5	6.0	---	---	---	---	0.5	0.5	2.0	1.5
14	7.0	6.5	6.5	5.5	---	---	---	---	0.5	0.5	1.5	1.5
15	7.0	6.5	5.5	5.5	---	---	---	---	0.5	0.5	1.5	1.5
16	6.5	6.5	5.5	5.5	---	---	---	---	0.5	0.5	3.5	1.5
17	6.5	6.5	5.5	5.5	---	---	---	---	0.5	0.5	4.5	3.5
18	6.5	6.0	5.5	5.5	---	---	---	---	0.5	0.5	3.5	1.5
19	6.0	6.0	5.5	5.5	---	---	1.0	0.5	0.5	0.0	1.5	1.5
20	6.0	5.5	5.5	5.5	---	---	1.0	1.0	0.0	0.0	1.5	1.5
21	5.5	5.5	5.5	5.5	---	---	1.0	1.0	0.0	0.0	1.5	1.0
22	5.5	5.5	5.5	5.5	---	---	1.0	1.0	0.0	0.0	1.5	1.0
23	6.0	5.5	5.5	5.5	---	---	1.0	1.0	0.0	0.0	2.0	1.0
24	6.0	6.0	5.5	5.5	---	---	1.0	1.0	0.0	0.0	3.0	1.0
25	6.0	6.0	5.5	5.5	---	---	1.0	1.0	0.0	0.0	3.0	1.5
26	6.0	6.0	5.5	5.5	---	---	1.0	1.0	0.0	0.0	2.0	2.0
27	6.0	5.5	5.5	5.0	---	---	1.0	1.0	0.0	0.0	3.5	1.5
28	6.5	5.5	5.0	5.0	---	---	1.0	1.0	0.0	0.0	3.5	1.0
29	6.5	6.5	5.0	5.0	---	---	1.0	1.0	---	---	3.0	1.5
30	6.5	6.0	5.0	5.0	---	---	1.0	0.5	---	---	2.0	2.0
31	6.0	5.5	---	---	---	---	0.5	0.5	---	---	3.5	2.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.5	3.5	8.5	6.0	12.0	9.5	17.0	15.0	---	---	18.5	17.0
2	3.5	3.5	9.0	8.5	13.5	11.0	18.0	15.0	18.0	17.0	19.0	18.0
3	3.5	3.0	9.0	8.5	13.0	9.5	17.0	16.0	18.5	18.0	19.5	18.0
4	3.0	2.0	9.0	6.5	13.5	11.5	17.0	15.5	18.0	16.0	18.5	17.0
5	2.0	1.5	6.5	6.0	15.5	12.0	17.0	15.5	17.0	15.0	18.5	16.5
6	2.0	1.5	10.0	6.0	16.5	14.5	16.0	13.5	18.0	14.5	18.0	16.5
7	4.5	2.0	11.0	6.5	16.5	15.0	16.5	15.0	17.0	15.5	16.5	14.0
8	3.5	3.0	10.5	9.0	16.0	13.5	18.0	15.5	18.5	17.0	14.0	12.0
9	4.5	2.0	10.0	9.0	15.5	14.0	18.5	16.5	19.5	17.0	13.0	11.5
10	4.0	3.0	13.5	9.0	15.5	13.5	18.0	15.5	19.5	18.5	11.5	10.0
11	3.0	1.5	11.5	10.5	16.5	14.5	16.5	15.0	19.5	19.0	11.5	10.0
12	3.0	1.5	10.5	9.0	16.5	15.5	15.0	14.0	19.5	19.0	11.5	10.0
13	3.5	1.5	9.5	9.0	16.5	15.0	14.0	14.0	19.0	18.0	10.5	9.0
14	5.0	2.0	9.0	8.5	16.0	13.5	16.0	14.0	18.5	16.0	10.5	10.0
15	6.0	2.0	9.0	8.5	15.0	13.5	16.0	16.0	16.5	16.0	12.0	10.5
16	8.0	4.0	11.5	8.0	14.0	13.5	16.0	15.0	18.5	16.5	11.5	11.0
17	8.0	6.0	10.5	7.0	15.0	13.5	---	---	19.0	18.0	11.5	10.5
18	8.0	6.5	7.0	6.5	15.0	14.0	---	---	19.0	18.5	11.5	10.5
19	8.5	6.5	10.0	6.5	15.0	13.0	---	---	19.0	18.0	11.5	10.5
20	10.5	7.0	9.5	8.0	16.5	15.0	---	---	18.0	17.0	11.0	10.0
21	9.5	7.0	8.0	8.0	16.5	16.0	---	---	18.0	16.5	10.5	8.5
22	10.5	8.5	11.5	8.0	16.0	15.5	---	---	17.0	15.5	10.0	9.0
23	10.5	8.5	10.0	8.5	16.5	15.0	---	---	15.5	13.5	13.0	10.0
24	9.0	7.0	9.0	8.5	17.0	16.0	---	---	15.0	15.0	13.0	13.0
25	8.5	6.0	11.0	9.0	18.0	16.5	---	---	15.5	14.0	13.0	13.0
26	8.5	8.0	10.5	9.0	18.0	18.0	---	---	16.5	15.0	13.5	13.0
27	8.0	6.5	10.0	9.5	18.0	18.0	---	---	17.0	16.0	13.0	11.5
28	6.5	6.0	9.5	9.5	18.0	18.0	---	---	19.0	16.5	13.0	13.0
29	6.0	5.5	11.0	9.5	18.0	16.0	---	---	19.5	18.0	13.0	12.0
30	8.5	4.5	12.0	10.0	17.0	15.0	---	---	19.0	17.0	13.0	10.0
31	---	---	12.0	11.0	---	---	---	---	19.0	17.0	---	---

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.

LOCATION.--Lat 42°00'11", long 75°23'02" Delaware County, temperature recorder at gaging station at bridge on County Highway 56 in Hale Eddy, 9 mi (14 km) upstream from confluence of East and West Branches at Hancock.

DRAINAGE AREA.--593 mi² (1,536 km²).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1973.
Water temperatures: October 1967 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 29.5°C July 28, Aug. 9.

Period of record:
Water temperatures: Maximum, 30.5°C July 22, 23, 1972.

REMARKS.--No water temperature record Nov. 1 to Mar. 30.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 25...	1000	1520	.5	660	220	8.9	1.7	3.4	1.1	24
NOV. 21...	0945	450	4.0	330	90	8.0	2.0	4.5	1.3	14
DEC. 22...	1015	1200	2.9	1400	170	9.0	1.8	6.0	1.2	17
JAN. 25...	1030	1500	2.6	700	80	8.0	1.7	2.8	1.0	15
FEB. 23...	1225	520	3.0	60	20	9.0	2.1	5.0	1.3	16
MAR. 21...	1030	1900	3.1	130	30	7.8	1.8	2.9	1.0	16
APR. 05...	1550	6280	3.5	290	[illegible]	8.0	1.7	4.4	1.5	15
19...	1025	1200	3.2	560	[illegible]	7.9	1.7	3.0	.9	16
MAY 22...	1030	5200	2.2	650	50	6.8	1.6	2.7	.8	15
JUNE 11...	1845	580	9.3	40	30	6.5	1.5	3.9	1.5	9
JULY 24...	1030	460	2.7	0	0	7.1	1.8	3.1	1.1	17
AUG. 23...	1015	59	2.8	20	20	8.7	2.5	4.5	1.3	25
SEP. 20...	1000	1300	2.4	80	70	6.4	1.9	2.8	1.0	17

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT. 25...	0	20	12	4.5	.1	.27	.03	.47	.06	.02
NOV. 21...	0	11	13	8.5	.0	.73	.00	.34	.02	.00
DEC. 22...	0	14	13	9.2	.0	.60	.00	.39	.14	.01
JAN. 25...	0	12	11	3.0	.0	.75	.00	.19	.04	.01
FEB. 23...	0	13	12	8.6	.0	.94	.00	.42	.02	.00
MAR. 21...	0	13	10	5.0	.0	.75	.00	--	.03	.02
APR. 05...	0	12	12	7.5	.0	.84	.00	--	--	--
19...	0	13	11	4.0	.1	.69	.01	.25	.04	.02
MAY 22...	0	12	10	4.1	.1	.45	.02	.04	.05	.02
JUNE 11...	3	12	12	3.9	.1	.09	.00	.14	.02	.01
JULY 24...	0	14	9.5	4.6	.2	.85	.00	.06	.01	.00
AUG. 23...	0	21	11	7.0	.2	.73	.00	.13	.00	.00
SEP. 20...	0	14	9.5	4.0	.2	.83	.00	.09	.03	.01

CONTINUED NEXT PAGE

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.										
25...	46	11	8	62	45	29	10	79	7.5	10.5
NOV.										
21...	52	16	10	62	46	28	17	86	6.8	2.0
DEC.										
22...	54	56	46	109	89	30	16	92	7.3	2.0
JAN.										
25...	41	32	28	67	57	27	15	72	7.0	1.0
FEB.										
23...	53	4	2	62	54	31	18	99	7.0	1.0
MAR.										
21...	43	4	0	55	38	27	14	72	7.0	.5
APR.										
05...	50	--	--	--	--	27	15	82	6.7	3.5
19...	43	38	35	76	59	27	14	71	7.1	6.0
MAY										
22...	38	25	21	75	51	24	11	69	6.7	11.0
JUNE										
11...	47	2	0	46	32	22	10	67	9.1	26.0
JULY										
24...	42	0	0	52	38	25	11	75	6.9	11.5
AUG.										
23...	54	0	0	64	44	32	12	97	7.1	17.0
SEP.										
20...	40	0	0	54	38	24	10	73	6.6	--

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
25...	8.1	73	7	360	B19	.0	--	--	--	--
NOV.										
21...	11.2	82	4	1300	110	.0	0	0	3	<.5
DEC.										
22...	11.0	80	0	--	--	.0	--	--	--	--
JAN.										
25...	11.6	82	4	510	B15	.0	--	--	--	--
FEB.										
23...	11.6	82	5	B5	B1	.0	--	--	--	--
MAR.										
21...	13.4	94	1	230	29	.0	--	--	--	--
APR.										
05...	--	--	9	--	--	.0	--	--	--	--
19...	12.2	99	4	B45	B3	.0	--	--	--	--
MAY										
22...	11.2	103	6	320	21	.0	--	--	--	--
JUNE										
11...	9.7	120	4	420	--	.0	--	--	--	--
JULY										
24...	10.6	98	8	B5500	100	.0	--	--	--	--
AUG.										
23...	11.0	115	3	2500	48	.0	--	--	--	--
SEP.										
20...	--	--	4	B20	--	.0	--	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	8.5	---	---	---	---	---	---	---	---	---	---
2	12.0	9.0	---	---	---	---	---	---	---	---	---	---
3	13.0	9.5	---	---	---	---	---	---	---	---	---	---
4	13.0	10.0	---	---	---	---	---	---	---	---	---	---
5	13.0	10.0	---	---	---	---	---	---	---	---	---	---
6	14.0	10.5	---	---	---	---	---	---	---	---	---	---
7	12.0	10.5	---	---	---	---	---	---	---	---	---	---
8	14.0	9.5	---	---	---	---	---	---	---	---	---	---
9	11.5	9.0	---	---	---	---	---	---	---	---	---	---
10	13.0	9.0	---	---	---	---	---	---	---	---	---	---
11	13.5	9.0	---	---	---	---	---	---	---	---	---	---
12	12.0	11.0	---	---	---	---	---	---	---	---	---	---
13	13.0	11.0	---	---	---	---	---	---	---	---	---	---
14	13.5	11.0	---	---	---	---	---	---	---	---	---	---
15	13.0	11.0	---	---	---	---	---	---	---	---	---	---
16	13.0	11.0	---	---	---	---	---	---	---	---	---	---
17	13.5	11.5	---	---	---	---	---	---	---	---	---	---
18	13.0	11.0	---	---	---	---	---	---	---	---	---	---
19	13.0	11.5	---	---	---	---	---	---	---	---	---	---
20	13.5	10.5	---	---	---	---	---	---	---	---	---	---
21	13.5	11.0	---	---	---	---	---	---	---	---	---	---
22	12.0	11.5	---	---	---	---	---	---	---	---	---	---
23	12.0	11.5	---	---	---	---	---	---	---	---	---	---
24	12.0	11.5	---	---	---	---	---	---	---	---	---	---
25	11.5	11.0	---	---	---	---	---	---	---	---	---	---
26	13.0	10.5	---	---	---	---	---	---	---	---	---	---
27	13.0	10.5	---	---	---	---	---	---	---	---	---	---
28	12.0	10.5	---	---	---	---	---	---	---	---	---	---
29	11.5	10.0	---	---	---	---	---	---	---	---	---	---
30	10.0	9.5	---	---	---	---	---	---	---	---	---	---
31	11.0	8.5	---	---	---	---	---	---	---	---	6.5	4.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.5	11.5	7.0	15.5	11.5	19.0	16.5	19.5	13.0	10.5	6.5
2	6.0	5.5	13.0	10.0	19.0	13.0	20.5	18.0	15.0	9.0	9.5	6.0
3	6.0	5.0	13.0	10.5	18.5	14.0	21.0	19.0	23.0	15.0	18.0	5.5
4	5.0	4.5	10.5	8.0	19.0	15.0	23.5	19.5	26.0	19.5	19.5	6.0
5	5.0	4.0	9.0	6.5	21.0	15.0	23.5	21.0	20.0	19.5	10.0	5.5
6	5.0	4.0	13.0	6.5	23.0	16.0	24.0	20.0	28.5	20.0	10.0	6.0
7	6.0	4.0	15.5	8.0	22.0	16.5	25.0	19.0	28.0	21.5	9.5	5.5
8	5.5	4.5	12.0	9.5	23.5	16.5	26.0	19.5	28.0	22.0	9.5	6.0
9	6.5	3.5	13.0	10.5	23.0	17.0	26.5	22.0	29.5	23.0	10.0	6.0
10	5.5	4.0	16.0	10.5	24.0	15.5	25.0	21.5	29.0	24.0	10.5	6.0
11	5.0	3.5	14.0	11.0	25.5	18.5	24.5	20.5	25.0	21.5	9.0	7.0
12	6.0	3.5	11.5	9.0	25.5	19.5	23.0	19.0	24.0	19.5	10.0	6.5
13	6.0	3.5	10.5	9.5	23.0	19.0	23.0	17.0	25.0	19.0	10.0	6.0
14	8.0	3.5	11.0	9.0	24.0	17.0	25.0	18.0	21.5	20.0	9.5	6.5
15	8.5	4.0	10.5	9.5	23.5	17.0	21.5	18.5	20.0	19.0	13.5	6.5
16	9.5	4.5	13.5	9.5	21.5	18.5	25.0	19.0	24.5	18.0	8.0	6.0
17	9.5	6.0	11.0	9.0	24.0	17.0	26.5	19.0	26.0	19.5	10.0	5.0
18	9.5	6.5	10.0	8.5	21.5	17.0	27.0	20.5	26.5	20.5	12.0	10.0
19	9.5	6.5	11.5	8.5	24.0	17.0	26.0	20.0	24.5	20.5	11.0	6.0
20	13.0	8.0	10.5	9.5	24.0	20.0	24.0	19.5	23.0	18.5	8.5	5.5
21	11.5	8.0	11.0	10.5	21.5	20.0	20.0	14.5	21.0	19.0	9.0	5.0
22	13.0	8.5	13.0	10.5	22.0	19.5	25.5	16.0	19.0	15.0	7.0	5.5
23	9.5	8.0	11.5	10.0	24.5	19.0	23.0	15.0	21.5	13.0	11.5	7.0
24	10.5	6.5	12.0	11.0	24.0	20.0	18.0	18.0	19.0	11.0	10.0	8.0
25	11.5	6.0	13.5	11.5	26.0	20.0	17.0	16.0	13.5	6.0	10.5	8.5
26	10.0	8.5	14.0	11.5	25.0	21.0	14.5	9.5	12.0	8.0	13.0	8.5
27	10.0	9.0	13.0	12.0	25.0	20.5	24.5	14.5	12.0	6.5	13.5	8.0
28	10.0	9.0	13.0	12.0	24.5	21.0	29.5	20.5	19.5	11.5	12.0	8.5
29	9.0	6.0	15.5	13.0	22.0	18.0	25.0	19.0	25.5	17.0	15.0	8.5
30	11.5	5.0	15.5	11.5	18.5	17.0	19.0	14.5	27.0	20.0	11.5	6.5
31	---	---	15.0	12.0	---	---	20.0	11.5	24.5	8.5	---	---

01427000 WEST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.

LOCATION.--Lat 41°57'08", long 75°17'31", Delaware County, N.Y.-Wayne County, Pa., at former gaging station, at bridge at end of Pennsylvania State Highway 191 in Hancock and 1.3 mi (2.1 km) upstream from confluence with East Branch.

DRAINAGE AREA.--648 mi² (1,678 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
16...	1500	2830	--	7.5	1.5	--	--	14	0	11	--
JUNE											
14...	1125	687	--	7.7	1.9	--	--	21	0	17	--
JULY											
11...	1100	710	1.6	7.0	1.7	2.8	.9	19	0	16	8.6
AUG.											
15...	1600	115	--	9.0	2.5	--	--	24	0	20	--
SEP.											
11...	1630	1230	--	6.5	1.7	--	--	16	0	13	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY										
16...	--	--	.40	.01	.06	.25	.03	.01	5	50
JUNE										
14...	--	--	.28	.02	.10	.14	.03	.00	2	53
JULY										
11...	3.5	.2	.24	.00	.17	.24	.03	.01	4	52
AUG.										
15...	--	--	.45	.00	.06	.16	.01	.00	1	57
SEP.										
11...	--	--	.67	.00	.02	.09	.02	.01	3	69

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY										
16...	25	13	63	7.1	12.5	12.6	119	1.6	--	B13
JUNE										
14...	27	10	77	7.5	20.0	10.2	111	2.9	2.8	15
JULY										
11...	24	9	72	7.9	23.0	9.0	106	.4	2.7	B200
AUG.										
15...	33	13	93	6.7	21.0	8.0	90	1.1	1.9	400
SEP.										
11...	23	10	79	7.5	9.0	11.6	101	.8	.9	28

B Results based on colony count outside the acceptable range (non-ideal colony count).

01427207 DELAWARE RIVER AT LORDVILLE, N.Y.

LOCATION.--Lat 41°52'05", long 75°12'50", Delaware County, temperature recorder at Lordville-Equinuck interstate bridge at Lordville, 50 ft (15 m) downstream from Humphries Brook and 6.5 mi (10.4 km) southeast of Hancock.

DRAINAGE AREA.--1,587 mi² (4,110 km²).

PERIOD OF RECORD.--Water temperatures: October 1967 to August 1971, June to September 1973.

EXTREMES, 1973.--Water temperatures: Maximum, 28.5°C on Aug. 10.

Period of record:
Water temperatures: Maximum (1967-70, 73) 28.5°C Aug. 10, 1973; minimum (1967-71), freezing point on many days during winter periods.

REMARKS.--Inflow from Humphries Brook is known to effect the recorded water temperature at undetermined times. No record June 1-13, July 13-17.

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	19.0	16.5	23.5	22.0	24.5	17.5
2	---	---	---	---	---	---	19.5	17.5	22.0	20.5	17.5	15.0
3	---	---	---	---	---	---	20.0	18.0	22.5	20.0	17.0	14.0
4	---	---	---	---	---	---	21.0	18.5	24.0	20.5	24.5	17.0
5	---	---	---	---	---	---	21.5	19.5	25.0	21.5	23.5	15.0
6	---	---	---	---	---	---	21.5	19.0	26.0	22.5	16.5	14.5
7	---	---	---	---	---	---	22.0	19.0	26.5	23.5	17.5	13.5
8	---	---	---	---	---	---	23.5	20.5	27.0	24.0	16.0	10.5
9	---	---	---	---	---	---	24.5	22.0	28.0	24.5	13.5	11.5
10	---	---	---	---	---	---	24.0	21.5	28.5	25.5	12.5	10.5
11	---	---	---	---	---	---	23.5	21.5	27.0	25.0	11.5	9.5
12	---	---	---	---	---	---	21.0	19.0	26.0	24.0	11.0	9.0
13	---	---	---	---	---	---	---	---	25.5	23.0	11.0	9.0
14	---	---	---	---	---	---	---	---	24.5	22.5	10.5	10.5
15	---	---	---	---	20.0	15.0	---	---	22.5	21.0	13.0	10.5
16	---	---	---	---	19.0	17.5	---	---	22.5	20.5	12.5	10.0
17	---	---	---	---	21.0	16.5	---	---	25.0	21.5	11.0	8.5
18	---	---	---	---	19.0	16.0	26.0	20.5	25.0	23.0	13.0	11.0
19	---	---	---	---	18.5	15.5	24.5	16.5	24.0	22.5	14.5	12.0
20	---	---	---	---	22.0	18.0	24.0	17.0	23.0	21.5	13.5	10.5
21	---	---	---	---	20.5	19.0	24.0	21.5	22.5	20.5	10.5	9.0
22	---	---	---	---	19.5	18.5	24.0	20.0	21.5	20.5	9.5	8.0
23	---	---	---	---	21.0	17.5	26.0	22.0	21.5	18.5	12.5	8.5
24	---	---	---	---	20.5	18.5	25.0	22.5	22.5	20.0	13.0	12.0
25	---	---	---	---	21.5	18.5	24.0	20.5	21.5	19.5	13.0	12.0
26	---	---	---	---	21.5	19.5	22.5	21.0	21.0	18.0	13.0	11.5
27	---	---	---	---	21.5	19.5	23.0	19.0	19.5	16.5	14.5	12.0
28	---	---	---	---	22.0	20.0	26.0	22.0	22.0	16.0	15.0	13.5
29	---	---	---	---	20.0	15.5	25.5	23.5	25.0	21.0	14.0	12.0
30	---	---	---	---	17.5	15.5	26.0	22.5	27.0	23.5	14.0	12.0
31	---	---	---	---	---	---	24.5	23.0	27.0	24.5	---	---

01427405 DELAWARE RIVER NEAR CALLICOON, N.Y.

LOCATION.--Lat 41°46'14", long 75°05'03", Sullivan County, temperature recorder at gaging station 500 ft (152 m) downstream from Hollister Creek, 1.3 mi (2.1 km) northwest of Callicoon and 1.4 mi (2.3 km) upstream from Callicoon Creek.

DRAINAGE AREA.--1,706 mi² (4,419 km²).

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 31.5°C Aug. 30, 31; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 31.5°C July 23, 1972, Aug. 30,31, 1973; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	10.5	8.5	8.0	1.0	0.0	4.0	3.0	0.0	0.0	4.0	0.0
2	14.0	10.0	9.0	8.5	2.0	0.5	4.0	3.0	0.0	0.0	4.0	0.0
3	14.5	11.0	11.0	9.0	2.0	1.0	3.0	2.0	0.5	0.0	1.0	0.0
4	15.5	12.0	9.5	9.0	1.5	0.5	2.0	1.5	2.0	0.5	2.0	0.0
5	15.0	13.0	9.0	8.5	1.5	1.0	3.0	1.5	3.0	1.5	1.5	0.0
6	16.0	13.5	9.5	7.0	3.5	1.5	1.5	0.0	1.5	1.0	2.0	1.0
7	15.0	13.5	9.0	7.0	3.0	1.5	0.0	0.0	3.0	1.5	3.0	1.5
8	14.5	12.0	9.5	8.5	1.5	0.0	0.0	0.0	2.0	1.5	5.0	3.0
9	13.0	11.0	9.5	8.0	3.0	0.5	0.0	0.0	1.5	0.0	5.0	4.0
10	11.5	9.0	9.0	8.0	3.5	3.0	0.0	0.0	0.5	0.0	5.0	4.0
11	12.0	8.5	8.0	7.0	3.5	1.5	0.0	0.0	0.5	0.0	4.5	4.0
12	11.0	10.5	8.0	6.5	1.5	0.0	0.0	0.0	1.0	0.0	5.0	4.0
13	12.0	10.5	6.5	6.0	2.0	0.5	0.0	0.0	1.0	0.0	6.0	4.5
14	12.0	9.5	6.0	5.5	3.5	1.5	0.0	0.0	1.0	0.0	4.5	3.5
15	11.5	10.0	5.5	4.0	2.0	0.5	0.5	0.0	0.5	0.0	4.0	3.5
16	10.0	9.0	4.5	3.5	1.0	0.5	1.5	0.0	0.5	0.0	6.0	4.0
17	11.5	10.0	4.0	3.5	0.5	0.5	1.5	0.0	0.5	0.0	8.0	6.0
18	10.5	9.0	4.0	3.0	0.5	0.5	2.0	0.0	0.5	0.0	6.0	2.0
19	10.0	9.0	4.5	3.5	0.5	0.5	1.0	0.0	0.5	0.0	2.0	1.5
20	10.5	7.0	4.5	4.0	0.5	0.0	1.0	0.0	1.0	0.0	3.5	1.5
21	10.0	7.0	4.0	3.0	0.5	0.0	0.0	0.0	0.5	0.0	4.0	2.0
22	10.5	9.5	4.0	2.0	1.0	0.5	0.5	0.0	0.5	0.0	3.5	3.0
23	11.5	10.5	3.0	1.5	5.5	1.0	1.0	0.0	0.5	0.0	5.0	2.0
24	13.5	11.5	4.0	1.5	3.5	3.0	2.0	0.5	1.0	0.0	6.5	3.5
25	12.0	10.5	4.0	1.5	3.5	3.0	2.0	0.5	1.5	0.0	6.5	4.5
26	11.5	9.5	5.0	3.0	3.5	3.0	3.0	1.0	2.0	0.0	7.0	5.0
27	12.0	9.5	4.5	3.5	3.0	2.0	2.0	1.5	2.0	0.0	8.5	5.5
28	11.5	10.5	3.5	3.0	3.0	1.5	2.0	1.5	2.0	0.0	9.0	5.5
29	12.0	11.5	3.0	1.5	1.5	0.5	1.5	0.0	---	---	8.5	5.5
30	11.5	9.5	1.5	0.0	0.5	0.5	0.5	0.0	---	---	6.5	5.5
31	9.5	8.0	---	---	3.0	0.5	0.0	0.0	---	---	7.0	5.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.5	13.0	9.0	16.0	13.5	20.0	17.5	24.5	21.5	30.5	25.0
2	7.0	6.5	14.0	11.0	18.5	14.5	21.0	19.0	22.5	20.0	27.0	23.0
3	6.5	6.0	14.0	12.0	18.0	13.5	21.0	20.0	22.0	20.0	24.5	20.0
4	6.0	5.5	13.0	10.5	18.5	15.0	22.5	20.5	25.5	20.0	29.0	20.5
5	5.5	4.5	10.5	9.5	18.0	16.0	23.5	21.5	26.0	20.0	28.0	23.0
6	4.5	4.0	12.0	8.0	21.5	16.5	23.0	21.0	26.0	20.0	25.5	20.5
7	6.5	4.0	15.0	9.0	20.0	17.0	24.5	20.5	26.0	20.5	23.5	18.5
8	6.5	5.5	---	---	19.5	16.5	26.0	21.5	27.0	22.0	21.5	17.0
9	6.5	4.5	---	---	20.5	16.5	26.5	22.5	28.0	23.0	20.0	14.5
10	6.0	5.5	---	---	21.5	17.0	26.5	22.5	29.0	23.5	20.0	14.0
11	5.5	4.5	14.5	12.0	24.0	18.5	25.5	22.0	26.5	23.0	16.0	14.0
12	5.0	4.0	12.0	10.0	25.0	20.5	23.0	19.5	25.5	22.0	17.5	12.5
13	5.5	4.0	10.0	9.0	23.5	20.0	22.0	17.5	25.5	21.0	18.0	12.5
14	6.5	4.0	10.0	8.0	22.5	18.0	24.5	19.0	23.0	20.5	15.0	14.0
15	8.5	5.5	9.5	8.5	22.5	17.0	23.0	21.0	21.0	18.5	17.0	14.0
16	10.5	6.5	11.5	8.0	22.0	18.0	25.0	19.5	22.5	18.5	16.5	14.0
17	11.0	9.0	11.5	9.0	23.5	17.0	26.5	19.0	26.0	19.5	18.0	13.0
18	12.0	10.0	9.0	7.0	20.0	17.0	27.0	20.0	28.0	24.0	18.5	14.0
19	13.5	10.5	10.0	6.5	20.5	16.0	23.5	20.0	27.5	23.5	20.5	14.0
20	15.0	10.5	9.5	8.0	23.5	18.5	---	---	26.5	22.5	19.0	15.0
21	14.5	11.0	10.0	8.5	22.5	20.0	---	---	26.0	22.0	18.5	13.5
22	16.0	11.5	12.5	9.5	21.5	19.5	---	---	27.5	21.5	13.5	12.0
23	15.5	13.5	11.0	8.5	24.0	19.5	---	---	27.0	19.5	18.0	13.0
24	14.5	11.5	11.0	9.0	23.0	19.5	---	---	26.5	21.0	18.0	14.5
25	13.0	8.5	13.0	11.0	24.5	20.0	---	---	28.0	21.5	17.0	15.5
26	11.0	10.0	13.0	11.5	24.5	21.0	---	---	28.0	22.5	19.5	15.0
27	10.0	9.0	12.0	11.0	24.5	21.5	---	---	27.0	22.5	21.5	16.0
28	9.0	8.5	11.0	10.5	24.5	21.5	---	---	28.5	22.5	23.0	18.0
29	11.5	8.0	15.0	11.0	21.5	17.0	---	---	29.5	23.5	20.5	17.0
30	11.5	6.5	16.0	12.5	19.5	16.5	---	---	31.5	25.0	21.0	14.5
31	---	---	16.5	14.0	---	---	27.0	24.5	31.5	26.0	---	---

01427500 CALLICOON CREEK AT CALLICOON, N.Y.

LOCATION.--Lat 41°45'39", long 75°02'55", Sullivan County, at gaging station, 0.7 mi (1.1 km) southeast of Callicoon, 0.9 mi (1.4 km) upstream from mouth and 1.0 mi (1.6 km) southwest of Hortonville.

DRAINAGE AREA.--111 mi^2 (287 km^2).

PERIOD OF RECORD.--Chemical analyses, May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
17...	0850	366	--	7.2	1.3	--	--	14	0	11	--
JUNE											
14...	1410	204	--	8.4	1.4	--	--	18	0	15	--
JULY											
01...	1545	640	3.1	7.5	1.2	2.1	1.2	15	0	12	9.7
10...	0830	114	2.0	10	1.6	4.0	1.4	23	0	19	9.3
AUG.											
16...	1040	398	--	7.9	1.4	--	--	20	0	16	--
SEP.											
12...	1400	33	--	10	1.8	--	--	26	0	21	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY										
17...	--	--	.60	.00	.11	.54	.03	.01	7	56
JUNE										
14...	--	--	.59	.01	.10	.10	.01	.00	2	56
JULY										
01...	2.7	.2	.68	.01	--	--	--	--	--	--
10...	5.1	.2	.79	.00	.07	.22	.02	.00	5	62
AUG.										
16...	--	--	.52	.00	.14	.31	.05	.03	18	66
SEP.										
12...	--	--	.93	.00	.05	.10	.02	.01	3	95

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY										
17...	23	12	77	7.3	9.0	11.4	101	2.0	2.5	53
JUNE										
14...	27	12	81	7.0	22.0	8.6	98	2.0	1.9	86
JULY										
01...	24	11	65	6.8	21.0	--	--	--	--	--
10...	32	13	93	6.9	19.0	9.4	103	2.4	3.0	98
AUG.										
16...	25	9	77	6.9	19.0	8.2	89	.8	4.5	B1400
SEP.										
12...	32	11	105	7.1	18.0	9.2	98	.5	1.2	B13

B Results based on colony count outside the acceptable range (non-ideal colony count).

01427705 DELAWARE RIVER AT SKINNERS FALLS, N.Y.

LOCATION.--Lat 41°40'12", long 75°03'28", Sullivan County, temperature recorder at Skinners Falls Interstate Bridge no. 5 at Skinners Falls, 1,000 ft (305 m) downstream from Calkins Creek and 5.3 miles (8.5 km) north of Narrowsburg.

DRAINAGE AREA.--1,902 mi^2 (4,926 km^2).

PERIOD OF RECORD.--Water temperatures: October 1967 to July 1970, June to September 1971, August and September 1973.

EXTREMES.--1973.
Water temperatures: Maximum, 29.5°C Sept. 5.

Period of record: Water temperatures: Maximum (1967-69, 71, 73), 29.5°C Sept, 5, 1973; minimum (1967-70), freezing point on many days during winter periods.

REMARKS.--No record Aug. 12.

TEMPERATURE (°C) OF WATER, AUGUST AND SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	24.5	21.5	27.0	23.0
2	---	---	---	---	---	---	---	---	21.5	20.0	26.5	24.0
3	---	---	---	---	---	---	---	---	21.5	20.0	24.0	21.0
4	---	---	---	---	---	---	---	---	24.0	20.0	25.0	20.5
5	---	---	---	---	---	---	---	---	25.0	21.0	29.5	22.0
6	---	---	---	---	---	---	---	---	25.0	21.0	24.5	21.0
7	---	---	---	---	---	---	---	---	26.0	22.0	21.0	18.5
8	---	---	---	---	---	---	---	---	27.0	23.0	19.5	18.0
9	---	---	---	---	---	---	---	---	28.0	23.5	18.5	15.5
10	---	---	---	---	---	---	---	---	28.0	24.0	18.0	14.5
11	---	---	---	---	---	---	---	---	26.5	23.5	16.5	14.5
12	---	---	---	---	---	---	---	---	---	---	15.5	13.0
13	---	---	---	---	---	---	---	---	26.5	23.0	15.5	12.5
14	---	---	---	---	---	---	---	---	24.0	22.5	15.0	13.5
15	---	---	---	---	---	---	---	---	22.5	19.5	15.5	13.5
16	---	---	---	---	---	---	---	---	22.0	19.5	16.0	14.0
17	---	---	---	---	---	---	---	---	24.5	21.0	15.5	13.5
18	---	---	---	---	---	---	---	---	25.0	22.0	15.5	13.5
19	---	---	---	---	---	---	---	---	25.0	21.5	17.0	13.5
20	---	---	---	---	---	---	---	---	22.0	19.5	16.0	14.5
21	---	---	---	---	---	---	---	---	22.0	20.0	16.0	13.0
22	---	---	---	---	---	---	---	---	23.0	19.5	15.0	11.5
23	---	---	---	---	---	---	---	---	23.5	18.5	15.5	12.0
24	---	---	---	---	---	---	---	---	23.0	19.5	16.0	14.5
25	---	---	---	---	---	---	---	---	24.5	20.0	15.5	14.5
26	---	---	---	---	---	---	---	---	25.5	22.0	16.5	14.5
27	---	---	---	---	---	---	---	---	24.0	22.5	18.0	15.0
28	---	---	---	---	---	---	---	---	25.5	22.0	19.0	16.5
29	---	---	---	---	---	---	---	---	27.0	23.0	18.0	17.0
30	---	---	---	---	---	---	---	---	28.5	24.0	18.5	14.5
31	---	---	---	---	---	---	---	---	29.0	24.5	---	---

01427750 DELAWARE RIVER AT NARROWSBURG, N.Y.

LOCATION.--Lat 41°36'34", long 75°03'44", Sullivan County, N.Y.-Wayne County, Pa., at bridge on U.S. Highway 106 in Narrowsburg, 0.1 mi (0.2 km) downstream from Feagles Lake Outlet.

DRAINAGE AREA.--1,913 mi² (4,955 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
17...	1130	E7900	--	7.6	1.1	--	--	12	0	10	--
JUNE											
19...	1215	E1900	1.4	6.9	1.4	2.3	.7	17	0	14	10
JULY											
24...	0830	E650	1.2	7.9	1.6	3.1	1.0	21	0	17	10
AUG.											
16...	1230	E2200	--	7.3	1.3	--	--	15	0	12	--
SEP.											
17...	1430	E1600	--	7.6	1.7	--	--	19	0	16	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY										
17...	--	--	.30	.01	.06	.29	.02	.00	6	43
JUNE										
19...	3.0	.2	.12	.00	.14	.06	.01	.00	8	47
JULY										
24...	5.0	.1	.18	.00	.05	.18	.01	.00	7	61
AUG.										
16...	--	--	.39	.00	.43	.04	.08	.01	41	85
SEP.										
17...	--	--	.30	.00	.02	.27	.01	.00	3	78

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY										
17...	24	14	61	7.0	10.0	11.2	100	.8	4.2	26
JUNE										
19...	23	9	63	6.9	18.0	6.8	71	.8	2.4	45
JULY										
24...	26	9	78	6.9	24.0	6.9	82	1.2	.9	865
AUG.										
16...	24	11	62	6.6	21.0	7.6	85	1.1	4.5	B420
SEP.										
17...	26	10	77	6.9	15.0	9.6	86	1.0	1.4	17

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.

LOCATION.--Lat 41°30'32", long 74°59'13", Sullivan County, temperature recorder at gaging station 1.6 mi (2.6 km) upstream from Lackawaxen River and 4.6 mi (7.4 km) northwest of Barryville.

DRAINAGE AREA.--2,023 mi² (5,240 km²).

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 28.0 °C Sept. 1, 2.

Period of record:
Water temperatures: Maximum, 30.5°C July 22, 23, 1972.

REMARKS.--No water temperature records available for Nov. 1 to Apr. 18.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSIS, JULY 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
JULY											
01...	1230	28600	2.4	5.8	1.2	1.7	.9	12	0	10	9.4

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL MANGANESE (MN) (UG/L)
JULY											
01...	2.0	.2	.39	.00	31	19	10	53	6.5	18.0	1500

CONTINUED NEXT PAGE

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	11.0	---	---	---	---	---	---	---	---	---	---
2	14.0	11.0	---	---	---	---	---	---	---	---	---	---
3	14.0	11.5	---	---	---	---	---	---	---	---	---	---
4	15.0	12.0	---	---	---	---	---	---	---	---	---	---
5	15.0	13.0	---	---	---	---	---	---	---	---	---	---
6	15.5	14.0	---	---	---	---	---	---	---	---	---	---
7	15.5	14.0	---	---	---	---	---	---	---	---	---	---
8	14.5	13.0	---	---	---	---	---	---	---	---	---	---
9	14.0	11.0	---	---	---	---	---	---	---	---	---	---
10	11.5	9.5	---	---	---	---	---	---	---	---	---	---
11	13.0	9.0	---	---	---	---	---	---	---	---	---	---
12	10.5	10.0	---	---	---	---	---	---	---	---	---	---
13	11.5	10.5	---	---	---	---	---	---	---	---	---	---
14	11.5	9.5	---	---	---	---	---	---	---	---	---	---
15	10.5	9.5	---	---	---	---	---	---	---	---	---	---
16	9.5	9.0	---	---	---	---	---	---	---	---	---	---
17	9.5	9.0	---	---	---	---	---	---	---	---	---	---
18	9.5	8.5	---	---	---	---	---	---	---	---	---	---
19	9.0	8.0	---	---	---	---	---	---	---	---	---	---
20	8.5	6.0	---	---	---	---	---	---	---	---	---	---
21	8.5	6.0	---	---	---	---	---	---	---	---	---	---
22	9.0	7.0	---	---	---	---	---	---	---	---	---	---
23	10.0	8.5	---	---	---	---	---	---	---	---	---	---
24	11.0	10.0	---	---	---	---	---	---	---	---	---	---
25	11.0	10.0	---	---	---	---	---	---	---	---	---	---
26	11.0	9.0	---	---	---	---	---	---	---	---	---	---
27	10.5	8.5	---	---	---	---	---	---	---	---	---	---
28	10.0	9.0	---	---	---	---	---	---	---	---	---	---
29	11.0	10.0	---	---	---	---	---	---	---	---	---	---
30	10.5	9.5	---	---	---	---	---	---	---	---	---	---
31	9.5	8.5	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	12.0	10.0	16.5	15.0	18.5	17.0	25.0	23.5	28.0	24.5
2	---	---	13.5	11.0	18.0	16.0	19.5	18.5	23.5	21.0	28.0	24.5
3	---	---	14.0	13.0	17.0	16.5	20.5	19.5	21.5	20.5	25.5	24.5
4	---	---	13.5	12.0	18.0	16.5	21.5	20.0	23.0	20.5	25.0	22.0
5	---	---	12.0	10.0	19.5	16.5	22.0	21.0	24.0	21.0	25.5	23.5
6	---	---	11.5	9.5	21.5	19.5	22.0	21.0	25.0	21.5	24.5	23.0
7	---	---	14.0	10.0	20.5	18.0	23.0	21.0	25.5	23.0	23.0	20.5
8	---	---	13.0	12.0	19.0	17.0	24.5	23.0	26.5	24.0	21.0	18.5
9	---	---	13.0	12.0	20.0	18.5	25.5	24.0	26.5	24.5	19.5	17.0
10	---	---	13.5	12.0	20.5	19.0	26.5	24.5	27.0	25.0	19.0	15.5
11	---	---	14.5	13.5	22.0	20.0	25.0	23.5	26.0	24.5	17.0	15.5
12	---	---	14.5	11.5	24.0	21.5	23.5	21.5	25.0	24.0	16.5	15.0
13	---	---	11.5	10.0	23.0	21.0	22.0	19.5	25.0	23.0	16.0	14.0
14	---	---	10.5	9.5	21.5	20.5	24.5	20.0	24.0	23.0	15.0	14.5
15	---	---	10.5	10.0	21.0	19.0	23.0	21.5	23.0	20.5	14.5	14.0
16	---	---	11.5	9.5	21.0	19.5	24.0	20.5	20.5	19.5	16.0	13.5
17	---	---	12.0	11.5	21.5	18.5	24.5	21.0	22.0	19.5	15.5	14.0
18	---	---	11.5	8.5	20.0	18.5	25.5	21.5	23.5	21.0	16.0	14.5
19	13.0	12.0	10.0	8.5	19.5	17.0	26.5	22.0	23.5	21.0	16.5	13.5
20	15.0	13.0	10.0	9.5	21.5	18.5	26.0	23.5	21.5	20.5	16.0	14.0
21	14.5	13.0	10.0	9.5	21.5	20.0	24.5	23.0	21.5	19.5	15.5	13.0
22	15.5	13.5	12.0	10.0	21.5	20.0	25.5	21.5	22.0	19.5	14.5	13.5
23	15.5	14.5	12.0	10.5	21.5	19.5	27.0	22.0	22.0	19.0	15.0	13.0
24	15.0	14.0	11.5	10.0	22.0	20.5	27.0	23.0	22.0	19.5	16.0	14.0
25	14.0	12.0	13.5	11.0	22.0	20.5	27.0	23.5	24.0	20.0	15.0	14.0
26	12.0	11.0	14.0	13.0	24.0	21.5	26.0	24.0	23.5	20.5	16.0	14.0
27	11.0	10.0	13.5	12.0	23.5	21.5	26.0	24.0	24.5	22.0	17.0	14.5
28	10.5	10.0	12.0	11.5	24.0	22.0	25.5	22.0	25.0	23.0	18.0	16.0
29	10.0	9.5	14.5	11.5	23.0	16.5	25.5	23.5	27.0	23.5	18.0	16.5
30	11.0	8.5	16.0	14.5	17.0	16.0	27.0	23.0	26.5	24.5	18.0	15.0
31	---	---	16.0	15.0	---	---	27.0	23.5	27.0	25.0	---	---

01431500 LACKAWAXEN RIVER AT HAWLEY, PA.

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, at gaging station at bridge in Hawley, 700 ft (213 m) upstream from Wallenpaupack Creek, and 3,000 ft (914 m) downstream from Middle Creek.

DRAINAGE AREA.--290 mi² (751 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
31...	1310	866	--	9.2	1.0	--	--	16	0	13	--
JUNE											
20...	1100	248	2.8	11	1.3	2.8	1.0	28	0	23	11
JULY											
24...	1655	146	1.9	11	1.3	3.2	1.0	27	0	22	11
AUG.											
21...	1645	236	--	11	1.2	--	--	27	0	22	--
SEP.											
17...	1800	123	--	11	1.4	--	--	27	0	22	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY										
31...	--	--	--	.00	.08	.21	.03	.00	8	54
JUNE										
20...	3.6	.2	.19	.00	.15	.10	.06	.01	9	61
JULY										
24...	4.6	.2	.09	.00	.05	.23	.06	.01	2	62
AUG.										
21...	--	--	.23	.00	.04	.20	.04	.03	0	56
SEP.										
17...	--	--	.21	.00	.00	.26	.06	.04	2	80

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY										
31...	27	14	70	7.2	17.0	10.6	110	3.2	3.9	200
JUNE										
20...	33	10	78	7.1	20.0	7.6	83	1.1	--	270
JULY										
24...	33	11	93	8.6	28.0	9.5	122	1.0	--	821
AUG.										
21...	32	10	85	6.8	21.0	8.8	99	--	--	240
SEP.										
17...	33	11	99	6.9	18.0	9.0	96	.8	--	32

01431670 WALLENPAUPACK CREEK AT LEDGEDALE, PA.

LOCATION.--Lat 41°22'04", long 75°19'10", Pike County, at roadside park 0.9 mi (1.4 km) southeast of Ledgedale and 2.6 mi (4.2 km) downstream from the confluence of East and West Branches.

PERIOD OF RECORD.--Chemical analyses: June to September 1973.

CHEMICAL ANALYSES, JUNE TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
JUNE											
20...	1320	--	1.1	7.8	1.0	2.2	.6	15	0	12	9.5
JULY											
25...	1030	E140	1.7	6.9	.9	2.0	.6	13	0	11	10
AUG.											
21...	1400	E95	--	6.5	.9	--	--	13	0	11	--
SEP.											
18...	1530	237	--	8.0	1.1	--	--	19	0	16	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
JUNE										
20...	3.8	.2	.08	.00	.14	.25	.02	.00	6	44
JULY										
25...	3.6	.2	.04	.00	.04	.30	.02	.00	4	46
AUG.										
21...	--	--	.01	.00	.03	.42	.02	.00	3	41
SEP.										
18...	--	--	.06	.00	.04	.42	.03	.01	8	70

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
JUNE										
20...	24	11	64	6.7	23.0	6.8	78	1.3	.8	86
JULY										
25...	21	10	59	7.5	25.0	8.5	103	2.6	4.0	--
AUG.										
21...	20	9	58	6.8	24.0	8.0	95	--	5.0	81
SEP.										
18...	25	9	68	6.9	17.0	9.6	100	2.5	6.9	28

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

01432119 LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN, PA.

LOCATION.--Lat 41°29'12", long 74°59'31", Pike County, at highway bridge in Lackawaxen, 0.3 mi (0.5 km) upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
MAY 31...	1130	1410	--	8.0	1.0	--	--	14	0	11	--
JUNE 20...	0900	290	3.0	8.9	1.3	2.6	.8	20	0	16	9.0
JULY 24...	1315	343	.9	9.0	1.3	2.7	.9	24	0	20	10
AUG. 22...	1145	294	--	8.2	1.2	--	--	21	0	17	--
SEP. 19...	1200	607	--	9.0	1.3	--	--	21	0	17	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
MAY 31...	--	--	--	.00	.08	.13	.01	.00	12	73
JUNE 20...	3.5	.3	.20	.00	.13	.13	.04	.00	4	52
JULY 24...	4.0	.2	.00	.00	.05	.12	.01	.00	2	60
AUG. 22...	--	--	.11	.00	.03	.10	.02	.01	0	44
SEP. 19...	--	--	.25	.00	.05	.17	.04	.01	3	62

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
MAY 31...	24	13	63	7.1	17.0	10.8	113	1.4	--	260
JUNE 20...	28	11	70	7.4	19.0	8.8	95	.5	1.6	88
JULY 24...	28	8	78	8.0	25.0	8.9	107	1.1	1.9	85
AUG. 22...	25	8	72	7.8	21.0	9.0	101	--	1.5	--
SEP. 19...	28	11	83	6.7	17.0	9.4	98	.5	3.1	96

B Results based on colony count outside the acceptable range (non-ideal colony count).

01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.

LOCATION.--Lat 41°28'31", long 74°54'46", Sullivan County, temperature recorder at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook and 1,000 ft (305 m) upstream of Shohola Brook.

DRAINAGE AREA.--2,692 mi² (6,972 km²).

PERIOD OF RECORD.--Chemical quality: October 1957 to September 1958, May to September 1973.
Water temperatures: October 1967 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 28.0°C Sept. 1; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 30.0°C July 23, 1972; minimum, freezing point on many days during winter periods.

REMARKS.--No water temperature records available June 27, Aug. 17-29, Sept. 17.

COOPERATION.--Water temperature recorder graph prior to June 26 furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY 17...	1400	11000	--	7.8	1.4	--	--	13	0	11	--
JUNE 19...	1315	2420	1.8	6.9	1.4	2.4	.7	17	0	14	9.0
JULY 25...	1630	1180	1.5	8.0	1.6	3.3	1.9	21	0	17	10
AUG. 16...	1450	5460	--	7.2	1.2	--	--	17	0	14	--
SEP. 13...	1600	1990	--	7.5	1.8	--	--	19	0	16	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY 17...	--	--	.20	.01	.10	.36	.03	.01	8	46
JUNE 19...	3.1	.3	.14	.00	.09	.12	.01	.00	4	44
JULY 25...	5.1	.2	.15	.00	.03	.19	.01	.00	8	55
AUG. 16...	--	--	.32	.00	.04	.60	.06	.01	24	78
SEP. 13...	--	--	.47	.00	.08	.06	.08	.00	2	63

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY 17...	25	15	65	6.5	13.5	11.2	--	3.4	2.5	42
JUNE 19...	23	9	62	6.9	20.0	8.8	96	1.4	.6	33
JULY 25...	27	9	81	6.8	28.0	9.5	122	.8	.9	52
AUG. 16...	23	9	62	6.8	21.0	8.7	98	1.0	7.9	B1300
SEP. 13...	26	11	83	7.3	18.0	9.8	104	.5	1.8	170

B Results based on colony count outside the acceptable range (non-ideal colony count).

01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	11.5	8.0	7.0	3.0	1.0	4.5	3.5	0.0	0.0	3.5	0.5
2	13.0	11.0	8.5	8.0	3.0	1.5	4.5	3.0	1.0	0.0	3.0	1.5
3	13.5	11.5	9.0	8.0	3.0	1.5	3.0	2.0	0.5	0.0	3.0	1.5
4	14.0	12.0	8.5	8.0	3.0	2.0	3.0	3.0	1.0	0.0	2.0	1.0
5	14.5	13.0	8.0	7.0	3.0	2.0	3.0	3.0	2.0	1.0	2.0	1.0
6	15.5	14.0	8.5	6.5	4.0	3.0	3.0	1.0	1.5	1.0	1.5	1.0
7	15.5	14.0	8.0	6.5	3.5	2.0	1.0	0.5	3.0	1.5	2.0	1.5
8	14.0	13.0	9.0	8.0	2.0	1.0	0.5	0.5	2.0	2.0	4.5	2.0
9	13.5	11.5	9.0	8.0	3.0	1.5	0.5	0.0	2.0	0.5	5.0	3.5
10	11.5	10.0	8.5	7.0	3.5	3.0	0.0	0.0	1.0	0.5	5.0	4.0
11	11.5	9.0	8.0	7.0	3.5	2.0	0.0	0.0	0.5	0.5	5.0	4.5
12	10.5	10.0	8.0	7.0	2.0	1.5	0.0	0.0	1.0	0.5	5.5	4.5
13	10.5	9.5	8.0	7.0	3.0	1.5	0.0	0.0	1.5	0.5	6.0	5.0
14	10.5	9.0	8.0	6.0	2.0	1.5	0.0	0.0	2.0	0.5	5.5	5.0
15	10.5	9.0	6.0	5.0	2.0	1.0	0.5	0.0	2.0	0.5	5.0	4.5
16	9.5	8.5	5.0	4.0	2.0	0.5	1.0	0.5	1.5	0.5	5.5	4.5
17	10.0	9.0	5.5	4.0	0.5	0.5	1.5	0.5	1.0	0.5	7.0	5.5
18	10.0	8.0	5.0	4.0	1.0	0.5	1.0	0.0	1.0	0.5	6.5	4.0
19	10.0	7.0	4.0	3.5	2.0	1.0	1.5	0.0	1.5	0.5	4.0	3.0
20	8.0	5.5	5.5	4.0	2.0	1.5	1.5	0.0	3.0	1.0	3.5	2.0
21	8.0	5.5	5.0	4.0	2.0	1.5	0.0	0.0	1.5	0.5	4.0	2.0
22	8.0	6.5	4.5	1.5	2.0	1.5	1.5	0.0	1.5	0.5	4.5	3.5
23	9.5	8.0	4.0	1.5	2.0	1.5	1.5	0.0	1.0	0.0	5.0	3.0
24	11.0	9.5	3.5	1.5	3.5	2.0	1.5	0.5	1.0	0.0	6.0	4.0
25	10.5	10.0	2.0	1.5	4.0	3.5	1.5	0.5	1.0	0.0	6.0	5.0
26	10.0	8.5	4.5	2.0	4.0	3.5	2.0	1.0	1.5	0.0	6.5	6.0
27	10.0	8.0	4.0	3.5	3.5	3.0	1.5	1.0	2.0	0.0	8.5	6.0
28	10.0	9.0	4.0	3.5	3.5	3.0	2.0	1.5	3.0	0.0	8.0	6.5
29	10.0	10.0	4.0	3.0	3.0	1.5	1.5	0.5	---	---	8.0	6.0
30	10.0	9.0	3.0	1.5	2.0	1.5	0.5	0.5	---	---	7.0	6.0
31	9.0	7.0	---	---	4.0	2.0	0.5	0.0	---	---	8.0	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	7.0	13.0	10.0	17.0	15.5	18.5	17.5	22.5	20.5	28.0	21.5
2	7.0	7.0	14.0	11.5	19.0	16.0	18.5	17.5	22.5	18.5	27.5	25.0
3	7.0	6.5	15.0	13.0	18.5	17.0	19.0	18.0	23.5	19.0	27.0	25.5
4	6.5	6.0	13.5	12.0	18.0	17.0	19.5	18.5	25.5	19.0	26.5	24.0
5	6.0	5.5	12.0	11.0	19.5	16.5	20.5	19.0	26.0	21.0	27.5	22.5
6	5.5	4.5	13.0	10.0	21.0	18.5	21.0	19.0	25.0	21.5	24.5	23.0
7	7.0	5.0	14.5	10.5	20.0	19.0	21.5	19.5	24.5	21.5	23.0	21.5
8	7.0	6.5	14.5	13.0	19.5	18.0	22.5	20.5	22.5	20.0	22.0	19.5
9	7.0	5.5	13.5	12.0	21.0	18.5	23.5	21.0	22.5	20.5	20.0	18.5
10	7.0	6.5	15.0	13.0	23.0	20.0	25.0	20.5	22.5	20.5	19.0	17.0
11	6.5	5.5	15.0	14.5	23.0	20.5	24.0	21.0	21.5	19.5	18.5	16.5
12	5.5	4.5	15.0	13.5	23.5	20.0	22.5	21.0	21.5	19.0	17.5	16.0
13	6.0	4.5	13.5	11.5	22.0	20.0	21.0	19.5	22.5	19.5	17.0	15.0
14	7.0	5.0	12.0	10.5	22.0	19.5	23.5	18.5	23.5	19.0	16.5	15.5
15	9.0	6.0	11.5	11.0	22.0	19.0	23.0	21.5	23.5	21.0	16.0	15.0
16	10.5	8.0	13.0	10.0	21.5	19.0	22.5	20.5	22.5	22.0	17.0	14.5
17	11.0	10.0	13.5	11.5	22.0	19.5	22.5	18.5	---	---	---	---
18	13.5	11.0	13.0	10.0	22.0	18.0	23.5	19.0	---	---	17.0	15.0
19	14.0	11.5	11.0	9.0	20.0	18.5	23.0	19.0	---	---	16.5	14.5
20	15.0	11.0	11.0	10.5	22.0	19.5	23.5	19.5	---	---	16.5	15.0
21	15.5	13.0	11.0	10.5	21.5	19.0	24.0	19.5	---	---	15.5	14.0
22	16.5	13.5	13.5	11.0	21.0	19.0	25.5	22.0	---	---	15.0	13.5
23	16.0	14.0	13.0	12.0	21.5	18.5	26.5	22.5	---	---	16.0	14.0
24	15.0	13.0	13.0	11.0	23.0	20.5	25.5	23.5	---	---	16.5	14.5
25	13.0	11.5	14.0	12.0	22.0	20.5	24.5	23.5	---	---	16.0	15.0
26	12.0	10.5	14.5	13.5	23.0	20.0	25.5	22.0	---	---	17.0	14.5
27	10.5	9.5	14.0	13.0	---	---	24.5	22.0	---	---	18.0	16.0
28	10.5	9.5	13.0	12.0	23.5	21.0	24.5	22.5	---	---	18.5	17.0
29	10.5	9.5	15.5	13.0	21.0	17.5	25.5	22.5	---	---	18.0	17.0
30	11.5	8.5	15.5	14.5	18.0	16.5	26.0	23.5	27.0	23.5	19.0	15.5
31	---	---	16.5	15.5	---	---	23.5	20.5	27.0	22.0	---	---

01432900 MONGAUP RIVER AT MONGAUP VALLEY, N.Y.

LOCATION.--Lat 41°40'07", long 74°46'52", Sullivan County, at bridge on State Highway 17B at Mongaup Valley.

DRAINAGE AREA.--76.5 mi² (198 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
14...	1300	260	--	7.5	1.1	--	--	8	0	7	--
JUNE											
14...	0930	130	--	7.4	1.4	--	--	19	0	16	--
JULY											
09...	1430	110	4.5	7.1	1.5	4.1	1.4	15	0	12	9.8
AUG.											
20...	1145	86	--	8.0	1.6	--	--	17	0	14	--
SEP.											
12...	1650	58	--	9.0	1.8	--	--	19	0	16	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY										
14...	--	--	.40	.01	.14	.27	.14	.06	9	60
JUNE										
14...	--	--	.57	.03	.34	.08	.18	.14	5	71
JULY										
09...	8.0	.2	.85	.00	.09	.41	.16	.10	2	70
AUG.										
20...	--	--	1.1	.02	.08	.20	.17	.13	3	68
SEP.										
12...	--	--	1.3	.01	.11	.17	.37	.12	3	74

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)
MAY										
14...	23	17	84	6.9	13.0	10.4	103	--	1100	22
JUNE										
14...	24	9	96	7.1	16.5	9.0	92	1.8	720	B200
JULY										
09...	24	12	92	7.5	25.0	8.2	99	1.6	2000	96
AUG.										
20...	27	13	101	6.9	18.0	9.2	101	.6	1100	B39
SEP.										
12...	30	14	125	6.9	17.0	9.4	98	.1	950	20

B Results based on colony count outside the acceptable range (non-ideal colony count).

01433005 MONGAUP RIVER BELOW SWINGING BRIDGE RESERVOIR, N.Y.

LOCATION.--Lat 41°34'02", long 74°47'01", Sullivan County, at private bridge, 0.3 mi (0.5 km) upstream from Black Lake Creek and 0.4 mi (0.6 km) downstream from dam and Swinging Bridge Reservoir.

DRAINAGE AREA.--148 mi² (383 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
MAY											
14...	1500	E490	--	7.3	1.1	--	--	9	0	7	--
JUNE											
14...	1130	E35	--	5.9	1.1	--	--	12	0	10	--
JULY											
26...	1000	25	2.7	5.6	1.1	3.3	1.0	12	0	10	9.4
AUG.											
20...	1330	E1570	--	5.2	1.1	--	--	10	0	8	--
SEP.											
13...	1040	19	--	5.5	1.2	--	--	12	0	10	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
MAY										
14...	--	--	.40	.00	.35	.30	.10	.02	5	55
JUNE										
14...	--	--	.29	.01	.26	.66	.04	.00	0	51
JULY										
26...	4.5	.2	.29	.00	.30	.16	.08	.04	4	50
AUG.										
20...	--	--	.27	.00	.15	.25	.04	.01	0	44
SEP.										
13...	--	--	.24	.02	.35	.18	.07	.03	2	31

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	FECAL COLI-FORM (COL. PER 100 ML)
MAY										
14...	23	15	72	6.2	10.0	9.8	88	--	430	B1
JUNE										
14...	19	9	64	6.5	14.5	10.6	103	2.0	70	<1
JULY										
26...	19	9	69	6.8	21.0	9.0	101	1.3	5100	B2
AUG.										
20...	18	9	60	6.6	21.0	6.4	72	2.0	26000	B3
SEP.										
13...	19	9	70	6.5	19.0	7.0	73	.0	560	B1

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

01433500 MONGAUP RIVER NEAR MONGAUP, N.Y.

LOCATION.--Lat 41°27'41", long 74°45'33", Sullivan County, at gaging station 300 ft (91 m) downstream from Rio hydroelectric plant of Orange and Rockland Utilities, Inc., 0.5 mi (0.8 km) downstream from Bush Kill and 2.8 mi (4.5 km) upstream from mouth and Mongaup.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY 14...	1620	743	--	7.2	1.2	--	--	8	0	7	--
JUNE 14...	1315	38	--	5.8	1.1	--	--	10	0	8	--
JULY 26...	0930	410	1.9	5.3	1.0	3.2	1.0	9	0	7	10
AUG. 20...	1700	751	--	5.7	1.1	--	--	10	0	8	--
SEP. 13...	1330	22	--	5.6	1.3	--	--	16	0	13	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY 14...	--	--	.30	.01	.14	.37	.02	.00	5	52
JUNE 14...	--	--	.18	.01	.25	.27	.04	.00	2	47
JULY 26...	4.5	.2	.33	.00	.15	.28	.05	.00	4	52
AUG. 20...	--	--	.25	.00	.42	.02	.04	.00	1	43
SEP. 13...	--	--	.22	.00	.07	.15	.00	.00	2	65

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY 14...	23	16	69	6.7	10.0	10.6	95	--	3.1	86
JUNE 14...	19	11	64	6.7	18.5	7.6	81	3.0	6.3	20
JULY 26...	17	10	64	6.8	19.0	5.5	60	1.0	2.7	24
AUG. 20...	19	11	64	7.2	21.0	5.9	66	--	3.3	86
SEP. 13...	19	6	66	6.6	18.0	8.2	87	.0	3.2	88

B Results based on colony count outside the acceptable range (non-ideal colony count).

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°22'14", long 74°41'52", Orange County, N.Y.-Pike County, Pa., specific conductance and water temperature recorder at gaging station at bridge on U.S. Highway 6 and 209 in Port Jervis, 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River.

DRAINAGE AREA.--3,076 mi^2 (7,967 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, July 1964 to June 1965, August 1966 to September 1973.
Water temperatures: February 1957 to September 1960, January to September 1973.
Sediment records: February 1957 to September 1960; March 1971 to September 1973.

EXTREMES 1972-73.--Specific conductance: Maximum, 96 micromhos July 28; minimum, 27 micromhos June 30, July 1.
Water temperatures: Maximum, 27.5°C Sept. 3-5; minimum, freezing point on many days during January and February.
Sediment concentrations: Maximum daily, 760 mg/l June 29; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 187,000 tons (170,000 tonnes) June 28; minimum daily, 3.1 tons (2.8 tonnes) Sept. 2.

Period of record:
Specific conductance (1973): Maximum, 96 micromhos July 28, 1973; minimum, 27 micromhos June 30, July 1, 1973.
Water temperatures: Maximum, 29.5°C July 19, 1959; minimum, freezing point on many days during winter months.
Sediment concentrations: Maximum daily, 760 mg/l June 29, 1973; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 187,000 tons (170,000 tonnes) June 8, 1973; minimum daily, 1 ton (0.9 tonne) Aug. 29, 1957.

REMARKS.--Specific conductance and water temperature recorder established Jan. 18. Specific conductance record unreliable Mar. 19 to Apr. 17, Sept. 23-30. Water temperature record unreliable Mar. 19 to April 17, Sept. 21-30.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 17...	1030	1600	1.5	200	0	8.5	1.8	3.0	1.0	21
NOV. 15...	1310	37000	2.6	810	120	5.7	1.0	1.5	1.0	9
DEC. 13...	1000	10500	2.9	170	20	6.8	1.1	1.8	.5	9
JAN. 10...	1020	7200	3.7	290	100	8.5	1.4	2.4	.6	12
FEB. 13...	1220	4000	2.6	160	70	7.3	1.2	2.5	.7	14
MAR. 07...	1010	5300	2.3	290	20	7.0	1.2	3.0	.9	11
APR. 12...	1100	14300	2.6	230	40	5.2	1.1	2.3	.7	13
MAY 29...	1030	10500	2.0	190	10	6.2	1.2	2.0	.5	13
JUNE 07...	1120	13500	1.3	340	100	7.2	1.2	2.1	.6	13
JULY 19...	1030	2900	.6	50	10	6.8	1.2	2.5	.8	16
AUG. 20...	1100	3500	3.4	100	20	6.6	1.3	2.5	1.0	16
SEP. 10...	1045	1900	2.0	20	0	8.2	1.8	3.5	1.3	20

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT. 17...	0	17	10	4.7	.0	.35	.00	.23	.01	.00
NOV. 15...	0	7	12	2.4	.0	.26	.00	.46	.05	.01
DEC. 13...	0	7	12	3.1	.0	.24	.00	.21	.00	.00
JAN. 10...	0	10	13	4.2	.0	.40	.00	.38	.02	.01
FEB. 13...	0	11	12	4.0	.0	.39	.00	.42	.02	.00
MAR. 07...	0	9	9.7	4.0	.0	.54	.00	.13	.02	.00
APR. 12...	0	11	11	2.9	.2	.34	.00	.08	.01	.00
MAY 29...	0	11	9.5	2.6	.3	.21	.01	.15	.01	.00
JUNE 07...	0	11	10	2.8	.1	.16	.00	.48	.03	.00
JULY 19...	0	13	9.6	4.3	.2	.08	.00	.06	.00	.00
AUG. 20...	0	13	8.5	3.5	.3	.24	.00	.00	.02	.01
SEP. 10...	0	16	9.2	5.0	.3	.32	.00	.05	.01	.01

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01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT. 17...	42	2	0	49	35	29	11	74	7.5	14.0
NOV. 15...	32	35	24	82	62	18	11	51	6.7	5.5
DEC. 13...	34	--	--	44	32	22	15	55	6.6	1.5
JAN. 10...	42	17	14	55	40	27	17	67	7.2	.5
FEB. 13...	39	3	0	45	34	23	12	64	6.8	.0
MAR. 07...	36	6	1	45	36	22	13	63	6.7	1.0
APR. 12...	34	8	6	41	30	18	7	54	6.8	5.0
MAY 29...	32	4	4	47	29	20	10	56	6.8	14.0
JUNE 07...	33	14	9	50	39	23	12	57	6.6	21.0
JULY 19...	34	1	0	46	32	22	9	64	6.8	23.0
AUG. 20...	36	1	1	48	31	22	9	63	6.6	22.5
SEP. 10...	43	0	0	47	37	28	11	74	6.9	18.5

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 17...	8.8	86	5	170	--	.0	--	--	--	--
NOV. 15...	11.6	93	13	B1700	B840	.0	--	--	--	--
DEC. 13...	11.8	85	5	1300	76	.0	0	0	2	<.5
JAN. 10...	11.2	78	8	490	B2	.0	--	--	--	--
FEB. 13...	11.3	79	4	740	B7	.0	--	--	--	--
MAR. 07...	12.8	91	5	430	B18	.0	--	--	--	--
APR. 12...	12.8	102	4	230	B15	.0	--	--	--	--
MAY 29...	9.4	92	6	1400	160	.0	--	--	--	--
JUNE 07...	8.4	95	8	2000	180	.0	--	--	--	--
JULY 19...	8.3	98	7	310	B10	.0	--	--	--	--
AUG. 20...	8.6	100	8	4000	B3	.0	--	--	--	--
SEP. 10...	9.4	101	5	B80	11	.0	1	0	4	<.5

B Results based on colony count outside the acceptable range (non-ideal colony count).

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	83	74	64	59
2	---	---	---	---	---	---	---	---	88	80	65	60
3	---	---	---	---	---	---	---	---	86	78	66	62
4	---	---	---	---	---	---	---	---	81	72	69	61
5	---	---	---	---	---	---	---	---	78	75	67	65
6	---	---	---	---	---	---	---	---	79	77	65	60
7	---	---	---	---	---	---	---	---	60	78	60	57
8	---	---	---	---	---	---	---	---	80	79	59	56
9	---	---	---	---	---	---	---	---	80	78	59	57
10	---	---	---	---	---	---	---	---	80	76	58	55
11	---	---	---	---	---	---	---	---	81	80	58	55
12	---	---	---	---	---	---	---	---	84	79	58	56
13	---	---	---	---	---	---	---	---	84	70	59	56
14	---	---	---	---	---	---	---	---	84	72	62	54
15	---	---	---	---	---	---	---	---	85	82	58	52
16	---	---	---	---	---	---	---	---	84	82	59	56
17	---	---	---	---	---	---	---	---	85	82	58	57
18	---	---	---	---	---	---	---	---	87	82	60	57
19	---	---	---	---	---	---	73	62	87	84	---	---
20	---	---	---	---	---	---	86	82	85	84	---	---
21	---	---	---	---	---	---	89	75	62	59	---	---
22	---	---	---	---	---	---	89	84	61	60	---	---
23	---	---	---	---	---	---	85	78	61	58	---	---
24	---	---	---	---	---	---	78	76	60	58	---	---
25	---	---	---	---	---	---	80	77	61	58	---	---
26	---	---	---	---	---	---	82	80	62	54	---	---
27	---	---	---	---	---	---	82	80	64	60	---	---
28	---	---	---	---	---	---	64	62	63	58	---	---
29	---	---	---	---	---	---	81	72	---	---	---	---
30	---	---	---	---	---	---	83	73	---	---	---	---
31	---	---	---	---	---	---	84	76	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	55	54	66	64	28	27	69	64	87	81
2	---	---	56	51	67	62	30	29	71	67	87	74
3	---	---	62	61	67	64	31	30	71	47	75	70
4	---	---	63	61	69	63	32	31	34	32	72	70
5	---	---	71	53	71	66	32	32	38	34	78	72
6	---	---	64	52	72	70	39	38	43	39	81	78
7	---	---	64	61	71	66	34	32	44	39	79	68
8	---	---	64	61	66	58	35	34	48	42	68	66
9	---	---	63	57	61	58	36	35	51	48	72	68
10	---	---	65	60	63	60	38	35	51	49	73	72
11	---	---	60	56	66	62	41	36	51	50	73	72
12	---	---	56	52	65	62	48	41	57	50	72	69
13	---	---	53	51	64	62	54	48	58	51	68	63
14	---	---	54	51	64	61	54	34	61	55	63	58
15	---	---	55	54	65	61	56	53	78	53	61	59
16	---	---	57	54	64	61	64	49	72	41	60	58
17	---	---	59	52	64	62	63	47	43	40	58	54
18	69	67	55	52	63	62	60	54	46	42	57	53
19	70	66	52	49	64	62	68	63	49	45	56	53
20	62	61	53	50	63	61	57	55	63	54	54	50
21	64	62	55	52	65	62	62	57	67	63	50	49
22	65	64	54	52	64	61	66	62	68	67	49	46
23	65	64	55	54	62	60	68	66	70	67	---	---
24	65	63	56	54	61	59	71	67	70	69	---	---
25	65	63	57	56	62	59	70	59	69	66	---	---
26	65	62	58	57	61	58	64	55	69	66	---	---
27	64	60	67	59	61	58	94	60	69	63	---	---
28	62	59	58	52	68	65	96	84	76	67	---	---
29	61	59	58	53	70	39	86	80	77	76	---	---
30	61	58	66	61	58	27	81	77	79	77	---	---
31	---	---	64	61	---	---	76	69	82	76	---	---

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01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	0.0	0.0	4.5	0.5
2	---	---	---	---	---	---	---	---	0.0	0.0	5.0	1.5
3	---	---	---	---	---	---	---	---	0.0	0.0	4.0	2.0
4	---	---	---	---	---	---	---	---	0.0	0.0	5.0	3.0
5	---	---	---	---	---	---	---	---	0.0	0.0	4.0	3.0
6	---	---	---	---	---	---	---	---	0.0	0.0	3.5	0.5
7	---	---	---	---	---	---	---	---	0.0	0.0	4.0	2.0
8	---	---	---	---	---	---	---	---	0.0	0.0	5.0	2.5
9	---	---	---	---	---	---	---	---	0.0	0.0	6.0	4.0
10	---	---	---	---	---	---	---	---	0.0	0.0	7.0	5.0
11	---	---	---	---	---	---	---	---	0.0	0.0	6.0	5.0
12	---	---	---	---	---	---	---	---	0.0	0.0	7.5	4.5
13	---	---	---	---	---	---	---	---	0.0	0.0	8.0	4.5
14	---	---	---	---	---	---	---	---	0.5	0.0	7.0	5.5
15	---	---	---	---	---	---	---	---	0.5	0.0	6.0	5.0
16	---	---	---	---	---	---	---	---	1.0	0.0	7.5	4.5
17	---	---	---	---	---	---	---	---	0.5	0.0	9.0	5.5
18	---	---	---	---	---	---	---	---	1.5	0.0	7.5	5.0
19	---	---	---	---	---	---	3.0	1.0	2.0	0.0	---	---
20	---	---	---	---	---	---	3.0	0.0	2.5	0.0	---	---
21	---	---	---	---	---	---	0.0	0.0	2.0	1.0	---	---
22	---	---	---	---	---	---	1.0	0.0	3.0	1.5	---	---
23	---	---	---	---	---	---	1.0	0.0	3.0	1.0	---	---
24	---	---	---	---	---	---	0.0	0.0	2.5	1.0	---	---
25	---	---	---	---	---	---	0.0	0.0	3.0	1.0	---	---
26	---	---	---	---	---	---	0.0	0.0	3.0	0.5	---	---
27	---	---	---	---	---	---	0.0	0.0	2.5	0.5	---	---
28	---	---	---	---	---	---	0.0	0.0	3.5	0.0	---	---
29	---	---	---	---	---	---	0.0	0.0	---	---	---	---
30	---	---	---	---	---	---	0.0	0.0	---	---	---	---
31	---	---	---	---	---	---	0.0	0.0	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	12.0	10.0	16.5	13.5	20.0	18.5	26.5	23.0	25.0	23.0
2	---	---	13.0	11.5	18.0	14.5	20.5	19.0	24.0	23.5	25.5	24.0
3	---	---	13.0	12.5	17.0	14.5	21.0	20.0	24.0	22.0	27.5	25.0
4	---	---	13.0	11.0	17.5	15.0	21.5	20.5	22.5	21.5	27.5	25.5
5	---	---	11.5	10.5	18.5	15.0	21.5	21.0	23.5	21.5	27.5	24.5
6	---	---	13.5	10.0	20.5	18.0	22.5	20.5	24.0	21.5	26.0	25.0
7	---	---	14.5	11.0	21.0	19.5	23.0	21.0	24.5	21.5	25.0	22.0
8	---	---	13.0	11.5	20.0	18.5	24.5	22.0	24.5	22.0	24.0	21.0
9	---	---	13.0	11.5	21.5	18.5	24.5	23.0	24.5	22.5	22.5	20.0
10	---	---	15.5	13.0	22.5	19.5	25.0	23.5	25.0	23.0	21.5	17.5
11	---	---	15.0	13.5	23.5	20.0	25.0	23.5	25.0	24.0	20.0	17.5
12	---	---	14.0	12.5	22.5	20.5	24.5	20.5	25.5	23.5	19.0	17.5
13	---	---	12.5	11.5	22.0	20.0	22.0	19.0	24.0	22.0	19.0	16.0
14	---	---	11.5	10.5	21.5	19.0	21.5	19.0	24.5	23.0	18.0	16.5
15	---	---	11.0	10.5	21.0	18.0	26.0	21.0	24.5	21.5	16.5	15.5
16	---	---	12.0	10.0	20.5	19.0	23.0	21.0	23.0	21.0	16.0	15.0
17	---	---	12.5	11.0	21.5	18.5	24.0	22.0	21.0	20.0	16.5	15.0
18	12.5	12.0	11.5	9.0	20.0	17.0	24.5	22.0	20.5	19.5	16.5	15.5
19	13.0	11.5	10.5	8.0	18.5	16.5	24.5	22.0	21.5	20.0	16.5	14.5
20	13.5	11.5	10.5	10.0	21.0	17.0	23.5	23.0	21.5	20.0	16.5	14.0
21	13.5	12.0	10.5	9.5	21.5	19.5	23.5	22.0	21.0	19.5	---	---
22	15.5	12.5	12.5	10.0	20.0	19.0	23.0	22.0	20.0	19.0	---	---
23	15.5	14.5	12.0	11.0	20.0	17.5	24.0	21.0	21.0	18.5	---	---
24	14.5	13.0	11.5	10.5	22.5	19.0	25.5	22.5	21.0	19.5	---	---
25	13.0	12.0	12.0	11.0	22.0	19.5	26.0	22.0	22.0	20.0	---	---
26	12.0	10.5	12.5	11.5	22.0	19.5	26.5	24.0	23.0	20.5	---	---
27	10.5	9.5	12.0	11.0	22.0	20.0	25.5	23.0	23.5	21.5	---	---
28	10.0	9.0	12.0	11.0	25.0	21.5	26.5	23.0	24.5	23.0	---	---
29	9.5	8.5	14.0	12.0	24.5	19.0	27.0	25.0	25.0	23.5	---	---
30	11.0	8.0	15.0	13.0	19.0	17.5	26.0	24.0	25.0	23.5	---	---
31	---	---	16.5	14.5	---	---	26.5	23.5	25.0	24.0	---	---

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1860	1	5.0	2330	4	25	7850	4	85
2	1720	1	4.6	2400	3	19	6640	4	72
3	1900	1	5.1	2330	2	13	5520	3	45
4	1940	1	5.2	3760	2	20	5620	2	30
5	1980	2	11	3160	1	8.5	5670	2	314
6	2050	4	22	3370	2	18	6160	22	366
7	2230	4	24	3210	5	43	20200	50	2730
8	2790	5	38	4230	19	368	15700	18	763
9	1650	4	18	35700	172	17600	13100	6	212
10	2250	3	18	24500	90	6310	14300	8	309
11	2270	2	12	13600	24	881	13400	10	362
12	1920	2	10	9870	7	187	11800	10	319
13	1990	2	11	8180	2	44	10200	9	248
14	1920	2	10	14100	21	1380	9750	3	79
15	1960	2	11	33000	57	5080	8430	2	46
16	2130	2	12	19200	20	1040	7730	3	63
17	1860	2	10	13200	11	392	6200	4	67
18	1920	2	10	9620	3	78	5000	8	108
19	2310	2	12	7410	2	40	4700	8	102
20	2090	2	11	9490	6	154	4900	4	53
21	2170	2	12	11400	7	215	5200	4	56
22	1990	2	11	8940	2	48	7000	6	113
23	1980	2	11	6910	2	37	14000	14	529
24	2010	2	11	5620	2	30	11300	7	214
25	2070	2	11	5210	2	28	9870	5	133
26	2330	2	13	6490	6	105	10100	2	55
27	2270	3	18	12700	14	480	10300	2	56
28	2330	4	25	10700	5	144	9450	2	51
29	2460	4	27	10000	4	108	8300	3	67
30	2680	4	29	8680	4	94	7260	6	118
31	2270	4	25	--	--	--	7930	7	150
TOTAL	65300	--	452.9	309310	--	34989.5	283580	--	7915

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	21900	44	2600	5590	2	30	2480	1	6.7
2	24900	37	2490	5620	6	91	2400	1	6.5
3	19000	12	616	19300	46	2820	2420	1	6.5
4	16000	5	216	18600	64	3210	3130	3	25
5	12000	2	65	14800	17	679	5280	8	114
6	10000	3	81	12400	9	301	6010	16	260
7	9000	3	73	9960	4	108	5210	8	113
8	7400	2	40	8470	13	297	5760	3	47
9	6600	2	36	7000	15	284	9320	17	428
10	6000	2	32	6200	10	167	8510	7	161
11	5000	2	27	5600	26	393	7370	2	40
12	4500	2	24	5310	19	272	6830	4	74
13	4000	2	22	5120	5	69	6910	2	37
14	3300	2	18	4890	3	40	6870	2	37
15	3100	2	17	4760	1	13	7260	2	39
16	3500	3	28	4540	1	12	8850	6	143
17	4050	4	44	4790	1	13	10100	24	654
18	3930	3	32	3900	1	11	16000	52	2250
19	3730	2	20	3700	1	10	13200	32	1140
20	4850	11	144	3760	1	10	11000	5	149
21	4950	20	267	3340	1	9.0	9450	2	51
22	4380	19	225	3160	1	8.5	8380	1	23
23	10300	94	2990	3030	1	8.2	7100	2	38
24	10900	39	1150	2570	2	14	5870	2	32
25	8380	6	136	2290	4	25	5180	2	28
26	7450	6	121	2130	3	17	5830	4	63
27	6270	3	51	2610	2	14	7260	3	59
28	5940	3	48	2520	2	14	6380	2	34
29	6000	2	32	--	--	--	5550	3	45
30	5600	2	30	--	--	--	5150	3	42
31	5200	2	28	--	--	--	4510	2	24
TOTAL	248130	--	11703	175960	--	8939.7	215570	--	6169.7

CONTINUED NEXT PAGE

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4890	5	66	5420	3	44	8010	5	108
2	12300	28	930	5020	4	54	6950	4	75
3	19400	32	1680	4510	5	61	6190	5	84
4	18600	17	854	5520	8	119	6010	4	65
5	34100	127	13400	4020	8	87	6870	6	111
6	26900	10	726	3530	5	48	6420	5	87
7	20100	11	597	3850	3	31	13400	23	1030
8	17000	30	1380	3400	2	18	15400	68	2830
9	15400	12	499	3620	2	20	9580	40	1030
10	15300	7	289	5380	3	44	7100	14	268
11	17600	9	428	12400	26	945	6380	5	86
12	14700	9	357	14300	28	1080	6270	6	102
13	12800	10	346	13200	16	570	5940	8	128
14	10400	7	197	12000	8	259	5800	5	78
15	8720	6	141	10600	7	200	4480	5	60
16	7730	5	104	11100	7	210	3620	4	39
17	6990	3	57	11300	6	183	2860	3	23
18	6490	3	53	20500	34	1970	2910	2	16
19	6010	3	49	23500	30	1900	2700	3	22
20	5660	5	76	19800	13	695	2840	1	7.7
21	4850	4	52	21600	14	816	3370	2	18
22	4440	4	48	21800	12	706	4800	2	26
23	4540	5	61	18500	8	400	3730	2	20
24	4920	7	93	15000	6	243	2570	2	14
25	4290	4	46	12600	6	204	3480	2	19
26	4480	4	48	10200	8	220	4540	2	25
27	4690	5	63	9060	9	220	4440	3	36
28	5760	10	156	8940	6	145	3620	5	49
29	5450	5	74	10700	6	173	46000	760	187000
30	5590	7	106	11600	11	345	78300	501	122000
31	--	--	--	9190	6	149	--	--	--
TOTAL	330100	--	22976	342160	--	12159	284580	--	315456.7

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	45300	72	8810	1470	4	16	2680	1	7.2
2	27800	27	2030	6670	24	1590	1160	1	3.1
3	18500	20	999	10500	31	879	1810	1	4.9
4	14800	12	480	6490	17	298	2270	1	6.1
5	12300	11	365	4360	9	106	2070	1	5.6
6	10100	5	136	3590	5	48	2050	1	5.5
7	8510	1	23	3400	4	37	1940	1	5.2
8	7180	2	39	3160	2	17	1480	1	4.0
9	6160	2	33	2800	2	15	2030	1	5.5
10	4920	2	27	2200	1	5.9	1810	1	4.9
11	3900	2	21	2000	1	5.4	1980	1	5.3
12	2500	2	14	1700	1	4.6	2110	1	5.7
13	2310	2	12	2500	1	6.8	1990	1	5.4
14	2880	2	16	2790	1	7.5	2270	2	12
15	2460	2	13	2790	5	50	2480	3	20
16	3160	2	17	7020	28	531	1740	2	9.4
17	3590	2	19	4920	25	332	2050	2	11
18	3130	8	68	3700	23	230	2520	2	14
19	2930	3	24	2610	8	56	2590	1	7.0
20	2660	2	14	3080	2	17	1990	2	11
21	2480	2	13	2840	2	15	2130	2	12
22	1900	3	15	2310	2	12	2050	4	22
23	1700	2	9.2	2050	2	11	2290	6	37
24	1470	3	12	1960	1	5.3	3060	7	58
25	1560	5	21	1980	1	5.3	2840	8	61
26	1740	7	33	1960	1	5.3	2500	8	54
27	1940	7	37	2330	1	6.3	2930	8	63
28	3900	8	84	3300	1	8.9	2770	8	60
29	1980	3	16	3300	1	8.9	2480	8	54
30	1750	3	14	2970	1	8.0	1990	8	43
31	1580	3	13	3300	1	8.9	--	--	--
TOTAL	207090	--	13427.2	106050	--	4347.1	66060	--	616.8

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 2633890
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 439152.6

01435000 NEVERSINK RIVER NEAR CLARYVILLE, N.Y.

LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, at gaging station 50 ft (15 m) downstream from covered bridge, 300 ft (91 m) upstream from small tributary, 2.2 mi (3.5 km) downstream from confluence of East and West Branches, and 2.2 mi (3.5 km) southwest of Claryville.

DRAINAGE AREA.--65.6 mi² (170 km²).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
23...	1215	437	--	3.7	.7	--	--	4	0	3	--
JUNE											
13...	1240	216	--	3.8	.8	--	--	4	0	3	--
JULY											
23...	1315	92	2.4	3.1	.8	.8	.3	5	0	4	7.0
AUG.											
17...	0945	145	--	3.1	.8	--	--	5	0	4	--
SEP.											
17...	1120	50	--	3.0	.9	--	--	6	0	5	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY										
23...	--	--	.39	.00	.06	.02	.00	.00	0	27
JUNE										
13...	--	--	.39	.01	.05	.05	.00	.00	2	26
JULY										
23...	1.5	.2	.56	.00	.00	.06	.00	.00	1	27
AUG.										
17...	--	--	.18	.00	.08	.00	.10	.10	1	23
SEP.										
17...	--	--	.21	.00	.01	.04	.00	.00	2	22

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY										
23...	12	9	32	5.3	7.0	10.9	92	.4	4.4	81
JUNE										
13...	13	10	33	6.4	13.5	9.3	97	1.6	1.7	68
JULY										
23...	11	7	36	6.8	19.0	8.8	96	.6	1.3	88
AUG.										
17...	11	7	32	6.9	16.0	9.0	92	.0	1.1	10
SEP.										
17...	11	6	34	6.7	12.0	9.4	88	.0	1.8	81

B Results based on colony count outside the acceptable range (non-ideal colony count).

01436000 NEVERSINK RIVER AT NEVERSINK, N.Y.

LOCATION.--Lat 41°49'12", long 74°38'09", Sullivan County, at gaging station at downstream end of outlet channel, 1,650 ft (503 m) downstream from Neversink Dam and State Highway 55, 1.7 mi (2.7 km) southwest of Neversink, and 2.6 mi (4.2 km) upstream from Wynkoop Brook.

DRAINAGE AREA.--91.9 mi^2 (238 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
23...	1115	550	--	3.7	.7	--	--	4	0	3	--
JUNE											
13...	1050	15	--	4.2	.7	--	--	5	0	4	--
JULY											
23...	1500	14	1.9	3.1	.7	.9	.4	4	0	3	7.0
AUG.											
17...	0830	14	--	4.7	1.0	--	--	8	0	7	--
SEP.											
14...	0900	15	--	8.4	1.2	--	--	22	0	18	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
MAY										
23...	--	--	.29	.00	.05	.03	.00	.00	0	23
JUNE										
13...	--	--	.39	.01	.56	.11	.01	.00	7	31
JULY										
23...	1.5	.2	.27	.02	.10	.08	.00	.00	1	28
AUG.										
17...	--	--	.36	.00	.01	.03	.01	.00	0	51
SEP.										
14...	--	--	.39	.00	.02	.03	.00	.00	0	12

01436000 NEVERSINK RIVER AT NEVERSINK, N.Y.--Continued

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
MAY										
23...	12	9	31	6.3	10.0	13.4	120	.3	1.5	<1
JUNE										
13...	13	9	38	6.9	18.5	7.8	83	1.6	3.2	B6
JULY										
23...	11	7	36	7.0	11.0	10.2	93	1.0	1.0	<1
AUG.										
17...	16	9	43	6.2	9.0	9.9	86	.4	.8	B5
SEP.										
14...	26	8	35	7.2	18.0	9.2	77	.0	.6	<1

B Results based on colony count outside the acceptable range (non-ideal colony count).

01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°21'40", long 74°41'07", Orange County, at bridge on U.S. Highway 6 (Main Street) in Port Jervis and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--333 mi² (862 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 17...	1145	130	2.6	140	0	12	1.9	6.5	1.1	29
NOV. 15...	1430	3000	3.3	340	60	6.2	1.2	3.1	1.2	9
DEC. 13...	1130	1100	3.7	390	30	7.5	1.4	3.8	.6	10
JAN. 10...	1155	500	3.9	160	0	10	1.8	5.4	.8	16
FEB. 13...	1340	460	3.5	90	0	11	1.7	5.5	.9	19
MAR. 07...	1200	530	2.8	290	40	8.2	1.5	5.6	1.0	16
APR. 12...	1230	1600	2.9	180	60	7.0	1.1	3.1	.6	11
MAY 29...	1220	1600	3.0	570	40	6.0	1.1	3.0	.8	11
JUNE 07...	1330	1360	3.2	120	30	7.0	1.2	3.5	.7	15
JULY 19...	1330	E188	2.5	70	30	9.2	1.6	5.7	1.1	23
AUG. 20...	1245	190	4.1	130	20	11	1.9	6.0	1.4	27
SEP. 10...	1300	92	3.3	90	30	12	1.9	6.9	1.3	28

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT. 17...	0	24	13	9.2	.1	.40	.00	.26	.20	.20
NOV. 15...	0	7	13	4.0	.0	.36	.01	.35	.08	.05
DEC. 13...	0	8	15	5.8	.0	.42	.02	.25	.10	.07
JAN. 10...	0	13	16	8.7	.5	.73	.01	.23	.18	.16
FEB. 13...	0	16	15	7.9	.0	.48	.29	.13	.21	.21
MAR. 07...	0	13	13	8.0	.1	.84	.00	.15	.18	.17
APR. 12...	0	9	11	4.2	.0	.45	.04	.22	.07	.05
MAY 29...	0	9	10	3.5	.3	.46	.02	.35	.14	.06
JUNE 07...	0	12	11	4.0	.2	.49	.01	.26	.15	.11
JULY 19...	0	19	10	7.5	.2	1.1	.20	.22	.26	--
AUG. 20...	0	22	11	9.3	.3	.90	.00	.03	.21	.18
SEP. 10...	0	23	11	8.5	.3	.78	.00	.01	.19	.17

E Estimated value.

01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.										
17...	63	2	0	69	47	38	14	110	7.7	9.5
NOV.										
15...	38	16	12	65	47	20	13	64	6.7	5.0
DEC.										
13...	45	12	6	57	44	24	16	72	6.3	2.0
JAN.										
10...	59	9	9	67	50	32	19	101	6.7	.5
FEB.										
13...	58	4	0	73	53	34	19	99	7.0	1.0
MAR.										
07...	52	6	2	59	49	27	14	90	7.0	3.0
APR.										
12...	38	9	7	47	34	22	13	63	6.7	5.0
MAY										
29...	36	19	15	66	44	20	10	59	6.6	15.0
JUNE										
07...	41	10	6	61	46	22	10	70	6.7	21.0
JULY										
19...	56	0	0	77	53	30	11	99	6.9	22.0
AUG.										
20...	63	1	1	76	57	35	13	128	6.5	21.5
SEP.										
10...	63	1	0	69	63	38	15	112	6.9	18.5

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
17...	9.0	79	7	B160	--	.0	--	--	--	--
NOV.										
15...	10.8	86	15	2400	390	.0	--	--	--	--
DEC.										
13...	11.6	85	5	370	B2	.0	10	0	5	<.5
JAN.										
10...	11.2	78	6	B25	<1	.0	--	--	--	--
FEB.										
13...	11.2	79	5	B1	<1	.0	--	--	--	--
MAR.										
07...	12.4	93	6	B34	B13	.0	--	--	--	--
APR.										
12...	11.6	92	6	120	11	.0	--	--	--	--
MAY										
29...	8.8	88	11	2100	200	.0	--	--	--	--
JUNE										
07...	8.4	94	11	3200	210	.0	--	--	--	--
JULY										
19...	7.3	84	7	260	B36	.0	--	--	--	--
AUG.										
20...	6.9	78	8	3100	130	.0	--	--	--	--
SEP.										
10...	8.3	88	7	2700	50	.0	<1	0	7	<.5

B Results based on colony count outside the acceptable range (non-ideal colony count).

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, at bridge on Bridge Street in Unadilla, 25 ft (8 m) upstream from gaging station, 1.0 mi (1.6 km) upstream from Carrs Creek, and 1.6 mi (2.6 km) downstream from Ouleout Creek.

DRAINAGE AREA.--982 mi^2 (2,543 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 24...	1030	186	.5	130	0	27	2.7	4.6	1.2	77
NOV. 17...	1000	2720	3.8	330	20	20	2.2	3.3	1.2	51
DEC. 14...	1000	4730	4.0	600	20	16	1.9	2.5	.7	39
JAN. 17...	1000	1330	4.1	90	0	26	2.5	3.1	.8	70
FEB. 14...	1030	1420	3.5	170	40	27	2.5	3.1	.9	72
MAR. 22...	0930	3120	3.6	480	30	20	2.0	2.6	.8	49
APR. 11...	1030	5840	3.4	1200	50	15	1.7	2.3	.7	39
MAY 15...	1000	1740	2.4	400	20	16	2.0	2.7	.8	46
JUNE 19...	1030	1120	3.0	540	50	20	2.3	3.0	.9	59
JULY 16...	1000	646	2.9	210	30	22	2.6	3.6	1.0	66
AUG. 23...	1100	235	4.0	350	0	22	2.0	4.4	1.3	65
SEP. 17...	1100	140	3.2	200	10	26	2.8	5.1	1.4	76

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT. 24...	0	63	15	6.7	.1	.54	.01	.26	.04	.03
NOV. 17...	0	42	13	4.5	.0	.60	.02	.31	.03	.02
DEC. 14...	0	32	14	4.0	.0	.63	.00	.28	.01	.01
JAN. 17...	0	57	14	5.0	.0	.89	.00	.30	.02	.02
FEB. 14...	0	59	14	4.5	.0	.85	.02	.19	.04	.01
MAR. 22...	0	40	12	4.2	.0	.55	.00	--	.02	.00
APR. 11...	0	32	11	3.5	.2	.54	.01	.63	.03	.00
MAY 15...	0	38	12	3.5	.2	.35	.00	.32	.03	.00
JUNE 19...	0	48	11	4.1	.2	.39	.01	.09	.04	.00
JULY 16...	0	54	10	4.5	.2	.62	.01	.18	.02	.00
AUG. 23...	0	53	12	6.0	.3	.77	.00	.12	.03	.02
SEP. 17...	0	62	13	6.6	.2	.86	.01	.05	.04	.02

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT. 24...	98	1	0	104	87	79	15	176	7.8	8.5
NOV. 17...	76	20	4	101	77	59	17	132	7.5	2.0
DEC. 14...	65	19	14	86	67	48	16	114	7.2	.5
JAN. 17...	96	4	4	96	83	80	23	167	7.4	.0
FEB. 14...	95	2	0	100	89	78	19	166	7.7	.0
MAR. 22...	72	13	8	92	78	58	18	123	7.4	1.0
APR. 11...	60	38	34	99	84	44	12	102	7.3	6.0
MAY 15...	64	10	9	89	64	48	10	112	7.2	9.0
JUNE 19...	76	11	6	101	78	59	11	134	7.5	15.5
JULY 16...	82	5	4	102	75	66	12	140	7.5	18.0
AUG. 23...	88	4	4	106	85	66	13	159	7.4	16.0
SEP. 17...	100	2	0	116	98	76	14	182	7.5	10.0

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 24...	9.2	80	3	1300	B12	.0	--	--	--	--
NOV. 17...	11.6	85	8	7800	1200	.0	0	8	2	<.5
DEC. 14...	11.8	83	4	4700	550	.0	--	--	--	--
JAN. 17...	11.5	80	1	12000	B2500	.0	--	--	--	--
FEB. 14...	12.6	86	1	1600	490	.0	--	--	--	--
MAR. 22...	12.2	87	3	13000	980	.0	--	--	--	--
APR. 11...	10.8	86	8	8000	630	.0	--	--	--	--
MAY 15...	11.6	111	5	12000	1000	.0	--	--	--	--
JUNE 19...	9.7	105	8	9800	B1900	.0	--	--	--	--
JULY 16...	8.6	88	5	12000	1100	.0	--	--	--	--
AUG. 23...	11.6	104	4	5500	540	.0	--	--	--	--
SEP. 17...	11.2	102	6	2000	140	.0	--	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

01503000 SUSQUEHANNA RIVER AT CONKLIN, N.Y.

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, at gaging station at abutment of former highway bridge, 500 ft (152 m) upstream from bridge on County Highway 304 at Conklin, 0.7 mi (1.1 km) downstream from Little Snake Creek, and 3.5 mi (5.6 km) downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 mi² (5,781 km²).

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1955, September 1972 to September 1973.
Water temperatures: October 1954 to September 1955.

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DEPTH (FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
SEP., 1972											
07...	1400	300	2.0	.20	.00	.03	215	8.0	22.0	5	8.6
NOV.											
08...	1000	2930	2.0	.30	--	.10	140	6.9	8.0	20	9.6
09...	1300	28500	1.0	.60	--	--	100	--	8.0	--	--
FEB., 1973											
02...	1330	3590	2.0	.80	--	.03	205	7.0	1.0	6	10.6
APR.											
10...	1330	10700	1.0	.50	--	.05	104	6.7	8.0	25	9.8
MAY											
01...	1330	3350	1.0	.40	--	.02	140	7.3	14.0	9	9.4
JUNE											
06...	1330	3210	1.0	.29	.00	.11	150	7.6	19.0	7	9.9
AUG.											
15...	1400	478	1.0	.22	.01	.03	160	7.8	23.0	4	8.7

DATE	PERCENT SATURATION	CHLOROPHYLL A (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
SEP., 1972										
07...	97	--	610	180	2.0	--	--	2	20	<.5
NOV.										
08...	83	4.3	32000	2300	.5	6.5	0	3	30	<.5
09...	--	--	--	--	--	--	--	--	--	--
FEB., 1973										
02...	75	.0	3400	790	7.0	8.0	10	2	10	2.8
APR.										
10...	84	1.3	4800	370	2.0	5.0	0	2	0	<.5
MAY										
01...	92	2.1	8960	B100	1.0	--	0	1	0	2.3
JUNE										
06...	112	4.4	2900	150	2.5	11	0	0	0	.5
AUG.										
15...	103	1.2	6700	530	2.0	14	0	5	20	.6

DATE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
SEP., 1972								
07...	1.2	120	50	80	0	66	.0	110
NOV.								
09...	4.3	750	150	23	0	19	.0	--
FEB., 1973								
02...	--	--	--	--	--	--	--	--
AUG.								
15...	1.5	400	90	70	0	57	.3	100

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANADIUM (V) (UG/L)
SEP., 1972								
07...	5	.01	.0	0	0	0	3	--
NOV.								
09...	--	--	--	--	--	--	--	--
FEB., 1973								
02...	--	--	.0	--	--	--	--	--
AUG.								
15...	6	.01	.0	0	0	10	27	.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

01503000 SUSQUEHANNA RIVER AT CONKLIN, N.Y.--Continued

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOXAPHENE (UG/L)
SEP., 1972											
07...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
MAY , 1973											
01...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
SEP., 1972											
07...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	E.0
MAY , 1973											
01...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)
SEP., 1972										
07...	.0	E0	.8	.0	.0	.0	.0	.0	.0	.0
MAY , 1973										
01...	.0	2	.7	.6	.5	.2	.0	.0	.0	.0
AUG.										
15...	.0	0	.0	.0	.0	.1	.0	.0	.0	.0

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
SEP., 1972									
07...	0	.0	--	.0	.0	--	.0	--	--
MAY , 1973									
01...	0	--	--	--	--	--	--	--	20
AUG.									
15...	0	.0	.0	.0	.0	.0	.0	.0	10

RADIOCHEMICAL ANALYSES

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP., 1972						
07...	1.5	<.4	2.6	.4	2.1	<.4
AUG., 1973						
15...	<1.3	.5	2.6	.4	2.0	<.4

E Estimated value.

01508800 FACTORY BROOK AT HOMER, N.Y.

LOCATION.--Lat 42°38'39", long 76°11'14", Cortland County, at bridge on State Highway 41, in Homer, 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.—15.8 mi² (40.9 km²).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.									
24...	1500	5.2	4.5	50	0	51	8.7	3.7	1.3
NOV.									
09...	1215	87	4.1	180	30	24	4.0	2.3	1.6
17...	1500	33	4.8	70	0	42	8.4	3.6	1.0
DEC.									
14...	1430	52	4.9	130	0	43	7.9	3.4	.8
JAN.									
17...	1500	21	3.5	120	0	51	9.7	3.5	.8
FEB.									
14...	1500	22	3.8	110	0	47	9.3	3.4	.7
MAR.									
22...	1430	48	4.1	60	0	38	7.6	3.4	.8
APR.									
11...	1500	57	3.8	100	0	36	6.8	4.3	.8
MAY									
15...	1430	25	4.2	130	0	40	8.3	3.4	.8
JUNE									
19...	1500	13	3.6	70	20	44	9.4	3.6	.9
JULY									
16...	1400	6.4	4.5	140	0	47	10	3.3	1.0
AUG.									
23...	1400	3.5	3.8	110	0	48	10	3.3	1.0
31...	1300	3.0	2.3	4300	20	40	10	3.4	1.1
SEP.									
05...	0900	--	--	--	--	--	--	--	--
17...	1330	4.0	3.3	90	0	44	10	3.6	1.0

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.									
24...	160	2	135	19	7.6	.1	3.0	190	160
NOV.									
09...	60	0	49	16	4.5	.0	1.7	94	76
17...	127	0	104	17	6.5	.1	3.5	161	140
DEC.									
14...	120	0	98	17	6.3	.0	3.6	156	140
JAN.									
17...	152	0	125	17	7.4	.1	3.9	185	170
FEB.									
14...	145	0	119	17	7.5	.0	4.1	178	160
MAR.									
22...	109	0	89	16	8.0	.0	2.9	144	130
APR.									
11...	107	0	88	16	8.0	.2	2.9	141	120
MAY									
15...	126	0	103	16	6.0	.3	2.8	153	130
JUNE									
19...	144	0	118	14	13	.1	2.8	172	150
JULY									
16...	162	0	133	14	6.0	.2	2.9	179	160
AUG.									
23...	157	4	135	15	5.5	.3	3.0	182	160
31...	141	0	116	15	5.5	.3	2.5	158	140
SEP.									
05...	--	--	--	--	--	--	--	--	--
17...	158	3	135	17	5.7	.2	3.0	179	150

01508800 FACTORY BROOK AT HOMER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.									
24...	25	324	8.5	8.0	9.8	83	1600	1000	570
NOV.									
09...	27	161	7.6	6.0	--	--	270	B170	61
17...	35	284	8.2	3.5	11.6	88	--	--	--
DEC.									
14...	42	275	7.6	.5	10.4	74	310	290	48
JAN.									
17...	45	316	8.3	.0	10.2	71	B10	20	21
FEB.									
14...	37	305	8.0	.0	10.6	72	B33	B4	B1
MAR.									
22...	37	254	7.9	2.0	11.2	82	290	15	16
APR.									
11...	30	249	7.8	5.0	10.8	86	B20	B17	B18
MAY									
15...	31	272	7.7	9.0	11.2	108	210	B76	54
JUNE									
19...	30	290	8.3	14.0	9.6	110	B5100	B890	430
JULY									
16...	26	318	8.3	19.0	9.7	110	26000	15000	2400
AUG.									
23...	26	312	8.5	15.0	11.2	124	B920	8670	390
31...	25	282	7.8	21.0	8.7	97	--	--	--
SEP.									
05...	--	--	--	--	--	--	B9900	B1290	670
17...	16	321	8.4	14.0	12.1	114	B1500	B1300	220

B Results based on colony count outside the acceptable range (non-ideal colony count).

01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, N.Y.

LOCATION.--Lat 42°38'13", long 76°10'37", Cortland County, at gaging station at bridge on Wall Street, in Homer, and 3.4 mi (5.5 km) upstream from confluence with East Branch.

DRAINAGE AREA.--71.5 mi² (185 km²).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.									
24...	1330	51	3.6	100	0	44	8.9	5.6	1.3
NOV.									
09...	0930	365	3.9	270	40	26	5.5	3.4	1.5
17...	1330	149	4.4	90	20	46	10	6.5	1.1
DEC.									
14...	1300	281	4.5	110	0	47	9.3	6.5	1.0
JAN.									
17...	1300	132	3.5	170	0	57	13	7.6	1.0
FEB.									
14...	1330	126	3.5	180	0	61	13	7.3	1.0
MAR.									
22...	1330	228	3.6	80	0	45	10	6.8	.8
APR.									
11...	1400	326	3.1	100	0	44	9.0	7.0	.9
MAY									
15...	1300	107	3.0	120	0	46	12	7.2	1.0
JUNE									
19...	1330	79	3.5	90	40	44	13	8.1	.8
JULY									
16...	1300	35	3.8	50	10	45	14	10	.9

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.									
24...	149	0	122	18	13	.1	1.0	173	150
NOV.									
09...	80	0	66	15	6.5	.0	.90	105	88
17...	151	0	124	17	12	.1	1.5	178	160
DEC.									
14...	143	0	117	17	14	.1	1.5	176	160
JAN.									
17...	187	0	153	20	18	.0	2.4	223	200
FEB.									
14...	193	0	158	20	15	.1	2.5	227	210
MAR.									
22...	141	0	116	17	15	.1	1.7	175	150
APR.									
11...	143	0	117	18	13	.2	1.6	173	150
MAY									
15...	162	0	133	18	14	.3	1.5	188	160
JUNE									
19...	167	0	137	16	15	.1	1.2	188	160
JULY									
16...	174	0	143	16	20	.2	1.2	201	170

01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.									
24...	28	304	8.2	8.5	8.8	77	2500	720	1100
NOV.									
09...	22	187	7.7	6.5	--	--	270	170	61
17...	32	315	8.1	3.5	10.4	79	380	B130	78
DEC.									
14...	43	310	7.7	.5	10.8	76	190	67	48
JAN.									
17...	47	386	8.0	.0	10.6	74	B150	B10	29
FEB.									
14...	48	391	8.2	.0	9.8	68	B110	28	B14
MAR.									
22...	38	313	7.6	2.0	9.5	73	1400	32	16
APR.									
11...	30	303	7.8	5.5	9.6	78	230	B15	20
MAY									
15...	31	346	7.4	9.0	10.8	104	B1600	47	37
JUNE									
19...	26	342	7.8	15.5	9.8	105	2080	680	260
JULY									
16...	27	371	7.9	18.0	9.8	106	6200	560	220

B Results based on colony count outside the acceptable range (non-ideal colony count).

01509000 TIOUGHNIOGA RIVER AT CORTLAND, N.Y.

LOCATION.--Lat 42°35'48", long 76°09'28", Cortland County, at Cortland Sewage Treatment Plant at Cortland, 0.1 mi (0.2 km) downstream from bridge on State Highway 11, and 0.4 mi (0.6 km) downstream from gaging station.

DRAINAGE AREA.--292 mi^2 (756 km^2) including 14.0 mi^2 (36.3 km^2), the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin.

PERIOD OF RECORD.--Chemical analyses: October 1956 to September 1957.
Water temperatures: October 1956 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 18.0°C Sept. 7; minimum, freezing point on several days during December to February.

Period of record:
Water temperatures: Maximum, 23.5°C July 22, 1957; minimum, freezing point on many days during winter periods.

REMARKS.--No record Sept. 30.

COOPERATION.--Water temperature records furnished by the city of Cortland.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT AT 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	9.0	2.5	4.0	0.0	4.0	7.5	8.5	12.0	16.0	14.5	14.5
2	12.0	9.5	2.0	2.0	1.0	5.5	7.5	10.0	13.0	16.0	15.5	17.0
3	12.5	9.0	2.5	2.0	1.5	4.5	5.5	10.5	12.5	16.0	15.0	16.0
4	13.0	9.0	3.5	2.0	0.5	2.5	6.5	8.5	13.5	15.5	16.0	16.0
5	12.5	9.0	3.5	3.0	2.0	2.5	4.0	7.0	15.0	15.5	16.5	16.0
6	14.0	8.0	4.0	2.0	1.5	4.0	3.5	8.0	16.5	14.5	15.0	17.0
7	13.5	8.0	0.0	0.0	2.5	4.5	4.5	8.5	16.0	14.5	15.5	18.0
8	11.0	9.5	0.5	1.0	3.5	7.0	5.0	10.0	16.5	17.0	16.0	13.5
9	10.5	8.0	2.0	1.0	0.5	5.0	5.0	9.5	16.0	16.0	15.5	13.0
10	9.5	7.0	2.0	2.0	0.0	5.5	5.0	11.0	15.0	15.0	16.0	13.5
11	9.5	7.0	2.0	1.0	0.0	5.5	3.0	11.5	16.5	15.0	16.0	13.0
12	11.5	7.0	2.0	1.5	0.0	7.0	3.5	10.5	17.5	14.0	15.5	12.5
13	11.0	7.5	3.0	1.5	1.0	5.0	4.0	10.0	15.5	13.0	15.0	12.0
14	10.0	6.0	3.0	2.0	1.5	4.5	5.0	9.0	15.0	14.0	15.0	12.5
15	9.5	4.5	2.5	3.0	3.0	5.5	6.0	9.5	15.0	13.5	14.0	13.0
16	9.0	4.5	2.0	3.0	0.0	6.0	6.0	8.5	14.0	14.0	16.5	12.5
17	10.0	3.0	0.0	4.0	0.0	6.0	6.5	10.0	13.0	15.5	16.0	13.0
18	9.0	4.0	0.0	4.5	0.0	4.0	9.5	8.5	13.0	15.5	16.0	13.0
19	9.0	4.0	2.0	4.0	1.0	1.0	10.5	9.0	13.0	16.0	14.5	12.5
20	8.0	4.0	3.0	2.0	3.5	1.5	11.0	9.5	15.0	15.0	15.0	12.0
21	8.0	3.0	3.0	2.0	3.5	2.5	10.5	9.0	16.0	15.5	15.0	12.5
22	8.5	3.5	3.0	3.0	3.5	2.5	13.0	9.5	15.0	14.0	14.0	9.5
23	10.0	3.0	3.5	3.0	2.5	5.0	11.5	10.0	15.0	14.0	14.0	12.0
24	11.0	3.5	4.0	2.0	3.0	4.0	10.0	10.0	15.0	15.0	14.5	12.5
25	9.0	4.0	4.0	2.0	3.0	4.5	10.0	12.0	15.5	15.5	15.0	12.5
26	9.5	4.5	3.5	3.5	2.5	5.0	10.0	11.0	15.0	15.5	15.5	12.5
27	9.0	4.0	2.5	3.0	3.0	4.5	9.0	10.5	17.0	17.0	14.5	13.5
28	10.5	4.0	2.0	4.0	3.5	4.5	8.5	11.0	16.5	17.0	16.5	13.5
29	11.0	3.0	2.0	2.0	---	5.0	7.0	12.0	17.0	16.0	16.5	13.0
30	10.0	2.0	1.5	1.0	---	6.0	7.0	11.5	17.5	15.0	15.5	---
31	9.5	---	4.0	0.0	---	6.0	---	12.5	---	15.0	17.0	---
AVERAGE	10.5	5.5	2.5	2.5	1.5	4.5	7.0	10.0	15.0	15.0	15.5	13.5

01513107 SUSQUEHANNA RIVER AT C.F.J. MEMORIAL BRIDGE AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'13", long 75°58'10", Broome County, at C.F.J. Memorial Bridge in Johnson City and 3.0 mi (4.8 km) downstream from Chenango River.

DRAINAGE AREA.--3,891 mi² (10,078 km²), below mouth of Chenango River.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
NOV.										
07...	1300	.90	--	.05	275	7.6	6.5	5	10.8	89
FEB.										
02...	1130	1.4	--	.16	480	7.1	1.0	4	11.6	82
APR.										
10...	1130	.90	--	.01	165	7.0	7.5	10	9.3	78
MAY										
01...	1130	.60	--	.02	210	8.0	13.0	4	9.8	95
JUNE										
06...	1130	.58	.01	.03	220	7.8	18.0	5	8.9	102
AUG.										
15...	1300	.54	.06	.05	311	7.3	24.0	3	8.6	101

DATE	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.									
07...	3.1	B700	260	.0	18	0	1	30	<.5
FEB.									
02...	.0	B320000	B27000	1.0	17	0	15	20	1.2
APR.									
10...	2.1	40000	B200	2.5	9.0	0	2	0	<.5
MAY									
01...	3.6	8900	40	.3	--	0	0	0	2600
JUNE									
06...	3.6	13000	480	2.0	18	0	0	0	.5
AUG.									
15...	8.6	B110000	5100	25	20	10	4	40	.6

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
NOV.								
07...	--	--	--	--	--	--	--	--
AUG.								
15...	1.9	230	140	123	0	101	.2	190

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
NOV.								
07...	--	--	.0	--	--	--	--	--
AUG.								
15...	5	.03	.0	0	10	10	27	.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

01513107 SUSQUEHANNA RIVER AT C.F.J. MEMORIAL BRIDGE AT JOHNSON CITY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
MAY											
01...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY											
01...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.00	.00	.00	.00	.00	.00	<.01	<.01	.00	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
MAY										
01...	.0	4	.6	.2	.3	.1	.0	.0	.0	.0
AUG.										
15...	.0	0	.0	.0	.0	.1	.0	.0	.0	.0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
MAY									
01...	0	--	--	--	--	--	--	--	5
AUG.									
15...	0	.0	.0	.0	.0	.0	.0	.0	0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.						
15...	<2.6	.4	2.9	.8	2.3	.7

01513110 SUSQUEHANNA RIVER AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'37", long 75°58'30", Broome County, at intake of the New York State and Gas Corporation, Goudey Station, at Johnson City, 100 ft (30 m) upstream from Little Choconut Creek, 0.5 mi (0.8 km) downstream from C.F.J. Memorial Bridge, 3.5 mi (5.6 km) downstream from Chenango River and 4.8 mi (7.7 km) upstream from former gaging station (01513500) at Vestal.

DRAINAGE AREA.--3,891 mi² (10,078 km²), below mouth of Chenango River.

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1973. Prior to October 1967, published as 01513500, "at Vestal."

EXTREMES.--1972-73:
Water temperatures: Maximum, 26.5°C July 6, 15; minimum, freezing point on many days during December to February.

Period of record:
Water temperatures: Maximum, 28.0°C July 29, 1963, Aug. 18, 1965 and July 18, 1968; minimum freezing point on many days during winter periods.

REMARKS.--During winter periods water is at times recirculated from inside the plant through the intake to prevent icing conditions, thus resulting in reported water temperatures which are slightly above actual river temperatures. No record Feb. 20-24, Mar. 22, June 16, 17, Sept, 22.

COOPERATION.--Water temperature records furnished by the New York State Electric and Gas Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	6.5	0.5	3.5	1.0	1.0	8.5	9.0	14.5	20.0	25.0	24.0
2	14.0	6.5	1.0	3.0	1.0	1.0	8.0	11.0	15.5	21.5	23.5	24.5
3	14.5	8.5	1.0	1.5	0.5	2.0	7.0	13.0	15.5	21.5	24.0	25.5
4	15.0	8.5	1.5	1.0	0.5	2.0	6.5	11.5	17.0	23.5	24.0	25.5
5	15.0	8.0	0.5	1.0	1.0	1.0	9.0	10.0	18.0	21.5	23.5	25.5
6	15.5	8.0	1.5	0.5	0.5	2.0	4.0	9.0	20.0	26.5	24.0	24.5
7	16.5	7.0	1.5	0.0	1.0	2.0	4.0	10.0	21.0	22.0	24.5	23.5
8	13.0	8.5	0.5	0.0	1.5	4.5	5.5	13.0	20.5	24.0	25.0	22.0
9	13.0	8.0	0.5	0.0	0.5	5.0	5.0	11.5	21.0	25.5	25.5	20.5
10	9.5	6.5	1.5	0.5	0.0	5.0	6.0	12.0	21.0	24.5	25.5	19.5
11	10.0	6.5	1.5	0.5	0.0	5.0	4.5	13.5	23.0	24.5	25.0	19.5
12	11.0	6.5	1.0	0.0	0.0	5.5	4.0	13.0	24.5	21.5	24.5	18.5
13	10.5	6.0	1.0	0.0	0.0	5.5	4.0	11.5	23.5	21.0	23.5	18.5
14	9.5	6.5	1.0	0.0	0.0	4.5	3.5	11.0	19.5	22.0	23.0	19.0
15	10.0	4.0	1.0	0.0	0.0	4.5	5.0	11.5	19.5	26.5	21.5	19.0
16	9.0	3.5	0.5	0.0	0.0	5.0	6.5	10.5	---	21.5	21.0	19.0
17	9.0	3.0	0.0	1.0	0.0	6.5	9.5	12.0	---	22.0	23.5	18.0
18	8.0	2.0	0.5	2.0	0.0	6.0	11.0	9.5	20.0	23.5	23.0	18.5
19	6.5	2.0	0.5	2.0	0.0	3.5	13.0	9.0	17.0	23.5	23.0	16.5
20	5.5	2.0	0.5	1.5	---	2.0	12.0	10.0	19.5	21.0	22.0	18.0
21	5.0	2.0	0.5	0.0	---	2.0	13.0	10.0	21.0	23.5	21.5	15.5
22	5.5	2.0	1.0	0.0	---	---	14.0	11.0	20.5	24.0	20.5	---
23	6.5	1.0	1.5	1.5	---	1.5	15.0	10.0	20.5	23.5	18.0	15.0
24	8.5	1.0	1.5	1.0	---	2.0	14.0	10.5	21.0	24.0	20.0	16.5
25	9.0	1.0	2.0	0.5	0.5	4.0	13.0	11.0	20.5	24.5	20.5	15.5
26	7.0	2.0	3.0	0.5	0.5	5.0	13.5	13.0	22.0	24.0	21.5	15.5
27	7.0	2.0	2.0	1.5	0.5	5.0	13.5	13.0	22.0	24.0	23.5	15.5
28	8.5	2.0	1.5	1.5	0.5	5.0	10.5	12.0	23.0	24.5	24.0	19.0
29	10.0	2.0	1.0	1.5	---	5.5	9.0	13.5	20.5	24.5	24.5	18.5
30	9.0	1.0	0.5	0.0	---	6.5	8.0	14.0	20.0	24.0	25.0	16.5
31	6.5	---	2.0	0.5	---	6.5	---	15.0	---	24.5	25.5	---
AVERAGE	10.0	4.5	1.0	1.0	0.5	4.0	8.5	11.5	20.0	23.5	23.0	19.5

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, at gaging station at highway bridge, 1.3 mi (2.1 km) upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 mi² (173 km²).

PERIOD OF RECORD.--Chemical analyses: March 1966 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 19...	1400	12	3.8	180	0	48	8.7	7.9	2.1	137
NOV. 20...	1100	81	5.7	380	30	29	5.0	5.2	1.7	72
DEC. 18...	1030	98	5.9	300	0	27	6.0	5.1	1.4	66
JAN. 18...	1000	47	4.7	190	50	32	7.1	6.3	1.2	93
FEB. 19...	1030	44	5.0	180	20	34	7.5	6.5	1.3	95
MAR. 19...	1030	272	4.5	1100	30	18	4.1	3.4	1.2	42
APR. 19...	1400	63	2.5	420	0	26	5.7	5.1	1.3	78
MAY 22...	1030	322	4.2	2200	40	16	4.1	3.0	1.1	52
JUNE 18...	1230	39	4.0	1200	110	34	7.7	6.7	1.5	113
JULY 20...	1300	5.0	2.1	340	30	42	9.7	8.8	1.5	138
AUG. 20...	1100	2.7	2.5	120	30	44	9.8	7.1	1.7	146
SEP. 18...	1030	5.4	2.9	260	70	48	11	8.2	2.0	146

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT. 19...	2	116	37	15	.1	.54	.00	.39	.02	.01
NOV. 20...	0	59	31	9.5	.0	1.0	.03	.42	.03	.03
DEC. 18...	0	54	29	7.9	.1	1.0	.00	.41	.03	.00
JAN. 18...	0	76	29	12	.1	1.3	.01	.28	.07	.07
FEB. 19...	0	78	30	11	.1	1.3	.04	.32	.09	.07
MAR. 19...	0	34	23	5.0	.0	.75	.00	.78	.07	.03
APR. 19...	0	64	25	6.7	.3	.74	.13	.40	.06	.04
MAY 22...	0	43	18	3.4	.3	.29	.00	.43	.09	.02
JUNE 18...	0	93	17	9.5	.1	.58	.06	.27	.09	.03
JULY 20...	0	113	27	14	.2	.65	.00	.36	.07	.06
AUG. 20...	3	125	25	12	.2	.34	.00	.16	.03	.02
SEP. 18...	0	120	40	16	.3	.65	.00	.28	.03	.03

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.										
19...	195	4	1	208	148	160	40	325	8.4	5.0
NOV.										
20...	127	14	8	144	102	93	34	217	7.8	2.0
DEC.										
18...	120	7	0	134	96	92	38	194	7.5	.0
JAN.										
18...	144	5	3	157	131	110	34	251	7.7	.0
FEB.										
19...	149	3	1	161	140	120	38	258	7.6	.0
MAR.										
19...	83	21	15	123	80	62	27	143	7.5	2.0
APR.										
19...	115	14	11	135	102	88	24	201	8.1	14.0
MAY										
22...	77	50	44	149	112	57	14	133	7.8	10.0
JUNE										
18...	139	28	22	199	151	120	24	251	7.8	15.0
JULY										
20...	177	10	6	218	165	150	32	319	7.8	21.0
AUG.										
20...	179	2	1	196	162	150	25	316	8.4	19.0
SEP.										
18...	203	8	0	243	183	170	45	359	7.8	14.0

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
19...	12.1	99	12	390	93	.0	--	--	--	--
NOV.										
20...	11.4	83	9	B60	33	.0	10	0	1	<.5
DEC.										
18...	11.8	81	3	B70	30	.0	--	--	--	--
JAN.										
18...	12.2	85	9	B90	17	.0	--	--	--	--
FEB.										
19...	11.6	81	8	B90	B19	.0	--	--	--	--
MAR.										
19...	12.0	88	13	720	B27	.0	--	--	--	--
APR.										
19...	10.2	100	10	B1200	--	.0	--	--	--	--
MAY										
22...	11.5	112	19	1300	470	.0	--	--	--	--
JUNE										
18...	10.8	104	14	1200	520	.0	--	--	--	--
JULY										
20...	11.2	136	12	940	290	.0	--	--	--	--
AUG.										
20...	9.6	104	9	1500	63	.0	--	--	--	--
SEP.										
18...	10.4	104	16	2800	460	.0	0	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.

LOCATION.--Lat 42°01'02", long 76°43'24", Chemung County, at bridge on State Highway 367 in Wellsburg, 0.4 mi (0.6 km) downstream from Bentley Creek and 6.3 mi (10.1 km) upstream from gaging station (01531000) at Chemung.

DRAINAGE AREA (revised).--2,506 mi² (6,491 km²) at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
NOV. 07...	1000	.90	--	.22	340	7.6	8.0	25	9.3	79
FEB. 02...	0930	1.2	--	.17	380	7.2	1.0	9	11.0	79
APR. 10...	0930	.80	--	.07	230	7.2	7.0	10	10.2	85
MAY 01...	0930	.30	--	.05	180	7.6	14.0	10	9.0	86
JUNE 06...	0930	.37	.02	.07	255	7.8	18.0	10	8.8	101
AUG. 15...	1000	.73	.05	.20	410	7.7	23.0	20	8.8	100

DATE	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV. 07...	4.8	8400	210	.5	22	0	4	40	<.5
FEB. 02...	.0	550	140	.0	16	0	3	30	<.5
APR. 10...	.5	43000	3000	3.0	9.0	0	2	0	1.5
MAY 01...	3.3	5500	300	2.0	--	0	3	10	440
JUNE 06...	3.6	13000	420	2.5	15	0	2	0	.5
AUG. 15...	7.9	40000	580	8.0	22	0	6	60	1.4

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
NOV. 07...	--	--	--	--	--	--	--	--
AUG. 15...	3.1	1700	260	140	0	115	.3	270

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
NOV. 07...	--	--	.0	--	--	--	--	--
AUG. 15...	32	.02	.0	0	0	20	31	.0

01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
MAY											
01...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY											
01...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.00	.00	.00	.00	.00	.00	<.01	.00	.00	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
MAY										
01...	.0	4	2.8	.8	1.7	.2	--	.0	.0	.0
AUG.										
15...	.0	7	2.7	<.1	1.3	.4	.0	.0	.0	.0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
MAY									
01...	0	--	--	--	--	--	--	--	10
AUG.									
15...	0	.0	.0	.0	.0	.0	.0	.0	10

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.						
15...	<3.8	1.8	4.6	2.6	3.8	2.2

CONEWANGO CREEK BASIN

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, at gaging station 300 ft (91 m) downstream from bridge on State Highway 394 (revised), in Waterboro, 0.2 mi (0.3 km) downstream from Davis Brook, and 1.9 mi (3.1 km) northeast of Kennedy.

DRAINAGE AREA.--290 mi^2 (751 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 17...	1600	180	5.5	510	100	40	6.8	4.3	1.5	120
NOV. 20...	1530	985	4.7	370	0	24	4.2	3.3	1.6	70
DEC. 18...	1600	662	5.1	220	0	30	4.6	3.3	1.1	75
JAN. 18...	1500	417	4.9	250	140	35	5.9	4.5	1.0	102
FEB. 20...	1600	259	5.1	320	110	36	6.0	4.0	1.0	105
MAR. 20...	1600	2050	2.9	750	20	17	3.1	2.8	1.2	45
APR. 17...	1300	367	3.0	1000	100	32	5.4	3.9	.9	95
MAY 22...	1530	359	3.2	930	100	31	5.4	3.7	.8	100
JUNE 20...	1600	132	5.4	1200	180	44	7.2	4.7	1.0	138
JULY 23...	1300	56	5.5	770	240	49	8.3	4.7	1.3	153
AUG. 21...	1300	231	5.8	1300	180	40	6.2	5.4	2.0	120
SEP. 19...	1300	72	5.6	1100	270	46	7.8	7.5	2.3	150

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT. 17...	0	98	23	7.0	.1	.62	.02	.42	.06	.04
NOV. 20...	0	57	21	3.2	.0	.56	.00	.34	.02	.00
DEC. 18...	0	62	21	6.2	.0	.84	.00	.28	.01	.01
JAN. 18...	0	84	22	8.1	.1	.99	.00	.26	.02	.01
FEB. 20...	0	86	22	7.0	.0	1.1	.03	.16	.01	.00
MAR. 20...	0	37	15	5.0	.0	.50	.00	.78	.03	.01
APR. 17...	0	78	21	6.1	.2	.72	.00	.31	.04	.00
MAY 22...	0	82	8.6	6.4	.2	.50	.01	.20	.04	.00
JUNE 20...	0	113	17	6.8	.1	.71	.09	.19	.05	.01
JULY 23...	0	125	23	4.5	.3	.65	.00	.22	.06	.02
AUG. 21...	0	98	24	9.0	.3	.88	.00	.29	.07	.03
SEP. 19...	0	123	24	10	.3	.92	.00	.28	.09	.03

CONEWANGO CREEK BASIN

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT. 17...	150	6	3	166	118	130	29	260	7.7	9.5
NOV. 20...	99	6	4	115	91	77	20	177	7.4	3.0
DEC. 18...	112	11	4	127	95	94	32	184	7.3	.0
JAN. 18...	136	7	3	150	125	100	16	241	7.7	.5
FEB. 20...	138	5	2	150	141	120	28	244	7.6	.0
MAR. 20...	71	20	13	102	74	55	18	175	7.2	1.0
APR. 17...	123	22	20	161	123	100	24	216	7.3	8.0
MAY 22...	111	17	14	170	136	100	18	217	7.9	12.0
JUNE 20...	158	22	19	207	164	140	26	278	7.8	17.0
JULY 23...	175	17	14	228	186	160	31	312	8.0	21.0
AUG. 21...	156	31	28	197	157	130	27	268	7.5	22.0
SEP. 19...	182	16	14	218	178	150	24	322	8.0	14.0

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 17...	8.6	76	8	210	120	.0	--	--	--	--
NOV. 20...	9.4	71	10	580	B160	.0	10	0	2	<.5
DEC. 18...	10.2	70	4	330	81	.0	--	--	--	--
JAN. 18...	11.0	78	5	230	37	.0	--	--	--	--
FEB. 20...	10.6	74	4	660	47	.0	--	--	--	--
MAR. 20...	11.0	78	10	B150	60	.0	0	--	--	--
APR. 17...	10.8	92	7	400	32	.0	--	--	--	--
MAY 22...	10.2	102	7	710	140	.0	--	--	--	--
JUNE 20...	8.4	102	9	800	340	.0	--	--	--	--
JULY 23...	7.8	95	6	1800	190	.0	--	--	--	--
AUG. 21...	8.9	96	12	B12800	B860	.0	--	--	--	--
SEP. 19...	9.7	97	11	3700	210	.0	--	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

ST. LAWRENCE RIVER BASIN

STREAMS TRIBUTARY TO LAKE ERIE

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.

LOCATION.--Lat 42°51'16", long 78°45'22", Erie County, at gaging station in Gardenville, 300 ft (91 m) downstream from bridge on Union Road, and 2 mi (3.2 km) upstream from Cayuga Creek.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, July 1966 to September 1973.
Water temperatures: October 1961 to September 1962.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 17...	0900	34	.1	200	0	60	11	10	3.0	176
NOV. 21...	0930	256	3.3	200	0	49	5.6	13	2.8	121
DEC. 19...	0900	110	5.7	50	0	55	9.6	12	2.0	148
JAN. 19...	0930	442	3.6	3500	70	39	6.9	8.1	2.1	102
FEB. 21...	1000	105	3.8	30	10	61	11	13	1.7	172
MAR. 21...	0930	340	4.4	640	20	44	7.7	16	1.9	112
APR. 17...	1800	129	.2	150	0	40	9.5	8.9	1.7	111
MAY 23...	1000	195	.9	360	0	46	8.0	7.6	1.5	134
JUNE 21...	1000	60	1.6	240	20	52	11	8.4	2.0	169
JULY 23...	1730	18	1.8	140	0	36	13	11	2.3	113
AUG. 21...	1730	68	6.5	670	20	53	10	21	4.2	142
SEP. 19...	1730	21	2.1	180	20	41	13	14	2.5	150

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT. 17...	3	149	50	18	.1	.02	.00	.32	.00	.00
NOV. 21...	0	99	51	23	.0	.56	.00	.20	.01	.00
DEC. 19...	0	121	48	18	.1	1.3	.01	.38	.00	.00
JAN. 19...	0	84	32	17	.0	1.3	.02	.52	.12	.01
FEB. 21...	0	141	47	24	.1	1.4	.01	.22	.00	.00
MAR. 21...	0	92	36	30	.1	.95	.00	.56	.02	.00
APR. 17...	0	91	40	16	.2	.99	.01	.51	.00	.00
MAY 23...	0	110	33	12	.2	.29	.01	.19	.02	.00
JUNE 21...	0	139	30	14	.2	.27	.03	.18	.01	.00
JULY 23...	0	93	40	20	.2	.13	.00	.24	.02	.00
AUG. 21...	0	116	60	25	.4	.48	.01	.33	.06	.03
SEP. 19...	0	123	46	20	.5	.14	.00	.16	.02	.01

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.										
17...	242	5	3	263	219	200	46	415	8.5	3.0
NOV.										
21...	210	4	1	234	184	150	51	363	8.0	.0
DEC.										
19...	229	0	0	249	202	180	59	392	7.8	.0
JAN.										
19...	166	100	91	269	226	130	42	286	7.8	.0
FEB.										
21...	253	3	0	270	238	200	57	436	8.0	.0
MAR.										
21...	200	16	12	244	196	140	50	350	7.9	1.0
APR.										
17...	176	7	6	214	150	140	48	308	7.7	8.0
MAY										
23...	177	8	8	204	179	150	38	305	7.8	13.0
JUNE										
21...	204	10	8	243	191	180	37	359	7.9	16.0
JULY										
23...	181	2	--	250	166	140	51	329	7.9	27.0
AUG.										
21...	252	20	18	312	261	170	57	426	7.7	22.0
SEP.										
19...	214	2	2	242	183	160	33	389	8.1	15.0

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
17...	11.5	85	9	1100	63	.0	--	--	--	--
NOV.										
21...	11.2	78	9	1600	490	.0	0	0	2	<.5
DEC.										
19...	12.0	82	6	2900	410	.0	--	--	--	--
JAN.										
19...	11.0	77	12	2300	560	.0	--	--	--	--
FEB.										
21...	12.2	85	4	2200	480	.0	--	--	--	--
MAR.										
21...	11.0	78	9	740	290	.0	0	--	--	--
APR.										
17...	11.0	93	9	350	814	.0	--	--	--	--
MAY										
23...	10.7	104	12	3300	620	.0	--	--	--	--
JUNE										
21...	9.0	104	9	5600	530	.0	--	--	--	--
JULY										
23...	7.6	93	9	B19100	B1140	.0	--	--	--	--
AUG.										
21...	8.4	96	17	25000	4000	.0	--	--	--	--
SEP.										
19...	10.2	106	8	48000	2400	.0	--	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 43°15'40", long 79°03'47", Niagara County, on U.S. Coast Guard wharf at Old Fort Niagara, at mouth of Niagara River, and 1.0 mi (1.6 km) northwest of Youngstown.

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAY									
08...	1500	258000	.1	40	7.3	11	1.2	111	91
JUNE									
21...	1100	263000	.3	38	8.1	11	1.3	114	94
JULY									
18...	1000	270000	.5	36	8.1	11	.4	112	92
AUG.									
22...	1100	239000	.3	35	7.5	11	.4	108	89

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
MAY									
08...	27	25	.3	.30	--	.02	168	130	39
JUNE									
21...	27	--	1.2	--	.05	.02	--	130	35
JULY									
18...	28	23	1.1	--	.01	.02	164	120	31
AUG.									
22...	26	23	1.1	.13	.01	.10	158	120	30

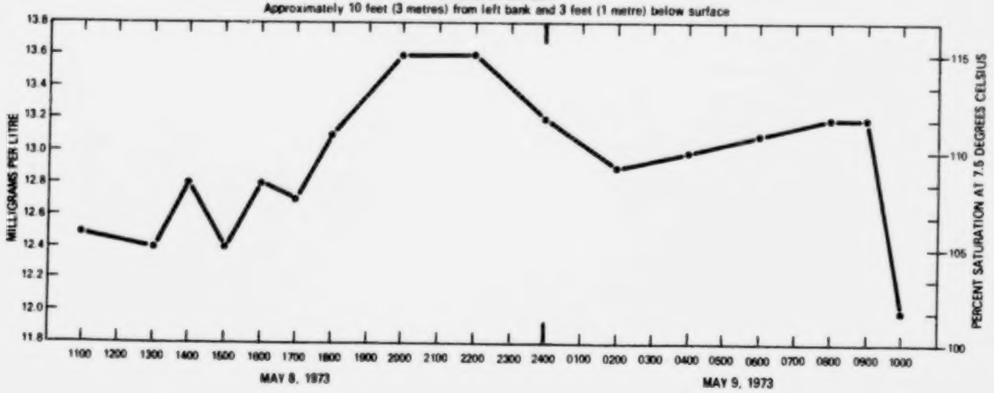
DATE	PH (UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
MAY								
08...	8.3	315	12.2	117	1060	8154	47	4.5
JUNE								
21...	8.1	299	10.2	121	6000	130	54	4.0
JULY								
18...	7.9	307	9.8	110	7500	87	22	--
AUG.								
22...	7.8	309	9.4	112	7400	100	33	--

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.—Continued

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)
MAY 08...	1500	0	0	0	0	0	--	0	1	0	10
JUNE 21...	1100	0	0	0	--	0	0	0	0	10	0
JULY 18...	1000	0	0	0	0	<10	10	0	0	10	10
AUG. 22...	1100	<1	<1	1	0	10	20	1	0	10	10
SEP. 11...	1300	0	0	2	1	0	10	1	0	20	110

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAY 08...	--	1	--	0	20	20	--	--	<.5	76
JUNE 21...	230	0	11	0	10	10	0	--	<.5	<.5
JULY 18...	0	0	8	0	10	20	2	1	<.5	<.5
AUG. 22...	0	0	3	0	10	50	2	1	<.5	4.4
SEP. 11...	10	4	35	0	10	30	1	1	<.5	<.5


DISSOLVED OXYGEN
Approximately 10 feet (3 metres) from left bank and 3 feet (1 metre) below surface

CONTINUED NEXT PAGE

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.--Continued

CROSS-SECTION MEASUREMENTS

All distances and depths are approximate.
Cond. - Specific conductance (micromhos/cm at 25°C).
D.O. - Dissolved Oxygen (Mg/l).
Temp. - Water temperatures (°C).

May 8, 1973 1210 to 1252 Hours

Distance from left bank	200 ft (60 m)			500 ft (152 m)			800 ft (244 m)			1150 ft (350 m)			1450 ft (442 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	310	11.0	8.0	300	10.6	9.0	310	10.8	8.5	--	10.6	8.0	300	9.6	8.0
10 3	*300	10.8	8.0	310	11.1	8.0	310	11.2	8.0	310	11.5	8.0	300	9.6	8.0
30 9	--	--	--	300	11.2	8.0	310	11.4	8.0	300	11.4	8.0	300	10.4	8.0
45 14	--	--	--	310	11.4	8.0	310	11.4	8.0	310	11.2	8.0	--	--	--

* Measured at 5 ft (2 m) depth.

May 8, 1973 1530 to 1626 Hours

Distance from left bank	200 ft (60 m)			500 ft (152 m)			800 ft (244 m)			1150 ft (350 m)			1450 ft (442 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	310	11.8	6.0	310	12.2	6.0	310	12.2	8.0	310	12.4	7.5	310	12.4	7.5
10 3	310	12.2	5.0	310	12.4	7.0	310	12.4	8.0	310	13.2	7.5	310	12.4	7.5
30 9	310	12.4	6.0	310	12.6	4.0	310	12.3	4.0	310	12.4	3.0	300	12.4	7.0
45 14	310	13.2	4.5	310	13.6	5.0	300	13.6	4.0	310	13.4	4.0	--	--	--

May 9, 1973 0820 to 0908 Hours

Distance from left bank	200 ft (60 m)			500 ft (152 m)			800 ft (244 m)			1150 ft (350 m)			1450 ft (442 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	320	11.8	7.0	320	11.8	6.0	310	12.0	6.0	310	11.6	7.0	310	12.0	8.0
10 3	320	12.0	5.5	320	12.2	6.0	310	12.2	4.5	310	12.4	6.0	310	12.2	8.0
30 9	320	12.2	4.0	320	12.2	4.0	310	12.4	4.0	310	12.4	4.5	310	12.4	8.0
45 14	320	12.0	3.0	320	12.2	3.0	320	12.4	3.0	310	12.2	3.0	310	12.3	4.0

July 18, 1973 0900 to 0954 Hours

Distance from left bank	200 ft (60 m)			500 ft (152 m)			800 ft (244 m)			1150 ft (350 m)			1450 ft (442 m)		
depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	290	9.4	18.0	280	10.0	20.0	290	10.1	20.0	200	10.2	19.5	280	10.0	22.0
10 3	*290	9.7	18.5	290	10.0	20.0	290	9.8	20.0	280	9.8	19.5	280	9.9	21.5
30 9	290	9.4	18.0	290	9.6	19.0	290	9.7	19.0	290	9.8	19.0	285	9.6	19.0
45 14	--	--	--	290	9.8	19.0	295	9.8	19.0	290	10.0	19.5	290	9.8	18.0

* Measured at 15 ft (4 m) depth.

September 11, 1973 1200 to 1246 Hours

Distance from left bank	200 ft (60 m)			500 ft (152 m)			800 ft (244 m)			1150 ft (350 m)			1450 ft (442 m)		
Depth ft m	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.	Cond.	D.O.	Temp.
3 1	270	8.8	18.0	270	9.2	19.0	290	9.2	19.5	290	9.1	21.0	280	9.4	22.0
10 3	270	9.2	17.0	285	9.4	18.0	290	9.3	19.0	285	9.2	20.5	290	9.2	22.0
30 9	270	8.7	17.0	290	9.0	18.0	290	9.0	19.0	290	8.9	20.0	280	9.0	21.5
45 14	290	9.2	17.0	290	9.5	17.0	285	9.6	18.0	290	9.1	19.0	280	9.2	21.0

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.--Continued

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1973

DATE	TIME	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)
JULY								
18...	1000	2.0	980	100	.4	3	1	180

DATE	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
JULY							
18...	5	18	50	3400	240	1	58

04219765 EIGHTEENMILE CREEK NEAR NEWFANE, N.Y.

LOCATION.--Lat 43°15'09", long 78°41'52", Niagara County, at bridge on Jacques Road, 0.2 mi (0.3 km) upstream from unnamed tributary, and 2.5 mi (4.0 km) south of Newfane.

DRAINAGE AREA.—75.4 mi² (195.3 km²).

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1973.

CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT. 31...	1530	1.1	--	.49	850	7.0	9.0	15	6.1	53
FEB. 07...	1230	1.7	--	.75	900	7.0	1.0	30	10.0	70
APR. 03...	1630	1.3	--	.24	--	9.0	7.0	50	9.6	80
MAY 09...	1100	.70	--	.38	720	7.8	13.0	25	4.9	47
JUNE 07...	1330	.42	.07	.23	776	6.5	23.0	30	1.8	21
AUG. 14...	1400	.28	.08	.28	610	7.3	23.0	6	2.8	33

DATE	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 31...	1.6	210	58	5.0	35	10	89	340	<.5
FEB. 07...	5.4	210	23	10	29	0	--	--	1.2
APR. 03...	1.6	B1800	390	.0	26	0	12	130	1.0
MAY 09...	2.4	3100	4400	8.2	--	10	150	400	.6
JUNE 07...	3.2	B18000	450	24	25	0	55	300	.5
AUG. 14...	--	4300	870	46	16	0	120	260	1.1

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
APR. 03...	--	--	--	127	0	104	--	--
AUG. 14...	2.6	1200	100	119	0	98	1.0	350

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
APR. 03...	--	--	--	--	--	--	--	--
AUG. 14...	16	.02	.3	1	1	40	340	.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

04219765 EIGHTEENMILE CREEK NEAR NEWFANE, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
MAY											
09...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
14...	.00	.0	.00	.00	.00	.01	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY											
09...	.00	.00	.00	.00	.00	.00	.00	.04	.00	.01	.0
AUG.											
14...	.00	.00	.03	.00	.00	.00	.00	<.01	.00	<.01	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
MAY										
09...	.0	0	2.0	--	.4	3.8	.0	.0	.0	.0
AUG.										
14...	.0	0	12	3.8	1.1	12	.0	.0	.0	.0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
MAY									
09...	0	--	--	--	--	--	--	--	140
AUG.									
14...	0	.0	.0	.0	.0	.0	.0	.0	600

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.						
14...	<3.8	.7	16	1.1	13	1.0

04219915 JOHNSON CREEK AT KUCKVILLE, N.Y.

LOCATION.--Lat 43°21'38", long 78°15'54", Orleans County, at bridge on State Highway 18 (Roosevelt Highway) in Kuckville and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--Chemical analyses: July 1971 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
JUNE										
07...	1130	.86	.03	.14	540	8.2	20.0	7	7.6	90
AUG.										
14...	1100	.11	.01	.15	430	8.0	25.0	2	7.2	83

DATE	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE									
07...	3.6	B17000	470	10	40	20	2	0	.5
AUG.									
14...	1.6	210	52	6.0	23	50	2	40	1.0

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
AUG.								
14...	.9	190	0	139	0	114	.4	309

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
AUG.								
14...	4	.02	.0	0	1	10	24	.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

04219915 JOHNSON CREEK AT KUCKVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOXAPHENE (UG/L)
JUNE 07...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 14...	.00	.0	.00	.00	.00	<.01	.00	.00	.00	.00	.0

DATE	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
JUNE 07...	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.0
AUG. 14...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)
JUNE 07...	.0	9	45	5.1	23	2.6	.0	.0	.0	.0
AUG. 14...	.0	0	3.7	1.8	3.3	.9	.0	.0	.0	.0

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
JUNE 07...	0	.0	.0	.0	.0	.0	.0	.0	10
AUG. 14...	0	.0	.0	.0	.0	.0	.0	.0	10

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 14...	<4.2	<.4	5.9	.4	4.9	.4

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, at gaging station at east end of Carrol Street in Churchville, 100 ft (30 m) downstream from main-line tracks of Penn-Central Transportation Co., and 0.3 mi (0.5 km) downstream from Black Creek Dam.

DRAINAGE AREA.--123 mi² (319 km²).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, August 1966 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 19...	1000	22	6.8	60	0	160	39	24	4.1	224
NOV. 21...	1300	152	8.5	420	10	120	24	21	3.5	272
DEC. 19...	1200	200	7.8	10	0	120	28	30	2.8	278
JAN. 19...	1200	180	6.0	30	40	150	31	20	2.4	275
FEB. 19...	1330	79	6.3	90	40	170	36	26	2.6	323
MAR. 19...	1330	940	4.1	650	20	64	14	14	2.7	155
APR. 18...	1330	155	.6	90	0	110	27	21	2.5	221
MAY 23...	1300	260	3.5	200	30	130	26	17	2.1	271
JUNE 18...	1530	77	6.4	130	70	150	32	22	2.4	288
JULY 24...	1300	15	7.6	30	30	150	39	24	2.6	233
AUG. 20...	1430	8.8	6.5	30	60	170	38	24	3.0	190
SEP. 18...	1330	14	2.7	50	40	150	44	23	3.3	187

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT. 19...	0	184	330	54	.4	.57	.08	.47	.03	.02
NOV. 21...	0	223	170	45	.2	1.4	.01	.35	.02	.01
DEC. 19...	0	228	170	53	.2	1.7	.01	.51	.00	.01
JAN. 19...	0	226	220	40	.2	2.0	.01	.52	.02	.01
FEB. 19...	0	265	240	54	.3	2.8	.05	.36	.02	.00
MAR. 19...	0	127	79	22	.2	1.0	.00	.74	.08	.02
APR. 18...	0	181	180	41	.3	1.5	.03	.43	.02	.00
MAY 23...	0	222	190	31	.3	.48	.01	.55	.03	.01
JUNE 18...	0	236	220	43	.3	1.0	.25	.35	.06	.03
JULY 24...	0	191	330	51	.3	.57	.00	.25	.06	.04
AUG. 20...	0	156	360	52	.3	.58	.01	.23	.05	.04
SEP. 18...	0	153	400	57	.3	.40	.00	.25	.03	.02

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT. 19...	731	2	0	908	694	560	380	1150	8.2	6.0
NOV. 21...	533	44	41	522	420	400	180	818	8.0	1.5
DEC. 19...	557	19	13	584	470	420	190	838	7.7	.0
JAN. 19...	615	9	6	788	527	470	240	918	8.1	.0
FEB. 19...	707	4	0	780	668	570	310	1060	8.2	.0
MAR. 19...	281	34	25	327	251	220	90	437	8.0	2.0
APR. 18...	498	3	3	690	500	390	210	789	7.9	10.0
MAY 23...	536	5	2	627	469	430	210	765	7.9	14.0
JUNE 18...	623	3	1	780	590	510	270	948	8.0	15.0
JULY 24...	722	3	2	958	745	540	340	1090	8.1	25.0
AUG. 20...	750	1	1	902	737	580	430	1090	7.9	23.0
SEP. 18...	774	1	0	1010	799	560	400	1200	8.1	16.0

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 19...	11.6	94	16	22000	4300	.0	--	--	--	--
NOV. 21...	9.4	67	21	4200	200	.0	10	0	1	<.5
DEC. 19...	10.2	70	9	8800	870	.0	--	--	--	--
JAN. 19...	9.8	68	11	1900	230	.0	--	--	--	--
FEB. 19...	10.4	72	10	4100	570	.0	--	--	--	--
MAR. 19...	10.0	73	15	370	200	.0	--	--	--	--
APR. 18...	10.8	96	11	3100	250	.0	--	--	--	--
MAY 23...	9.9	100	21	B16800	460	.1	--	--	--	--
JUNE 18...	9.7	100	14	13000	480	.0	--	--	--	--
JULY 24...	10.2	129	13	4200	B130	.0	--	--	--	--
AUG. 20...	9.8	117	12	B200	880	.0	--	--	--	--
SEP. 18...	11.2	108	14	B16200	240	.0	0	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

04232000 GENESEE RIVER AT ROCHESTER, N.Y.

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, at gaging station on right bank, 40 ft (12 m) downstream from plant 5 of Rochester Gas and Electric Corporation in Rochester, 100 ft (30 m) upstream from bridge on Driving Park Avenue and 6.1 mi (9.8 km) upstream from mouth.

DRAINAGE AREA.--2,457 mi² (6,364 km²).

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1955.
Water temperatures: October 1954 to September 1973. Prior to October 1967, published as "at Driving Park Avenue".

EXTREMES, 1972-73:
Water temperatures: Maximum, 29.5°C Sept. 5; minimum, 0.5°C on several days January to March.

Period of record:
Water temperatures: Maximum, 30.5°C Aug. 18, 1965; minimum, (1954-64, 1966-73) freezing point on many days during most years.

REMARKS.--Additional water quality data available from New York State Department of Environmental Conservation.

COOPERATION.--Water temperature records furnished by the Rochester Gas and Electric Corporation.

CHEMICAL ANALYSIS, SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
SEP.					
24...	1315	2	10	8	<.5

TEMPERATURE (°C) OF WATER, OCTOBER 1972 TO SEPTEMBER 1973

(ONCE DAILY MEASUREMENT AT 1030)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	9.0	2.0	2.0	1.5	1.5	7.0	10.0	16.5	23.0	27.0	28.0
2	16.5	8.5	1.5	3.0	2.0	1.5	8.0	11.5	16.5	24.5	26.5	28.5
3	16.0	9.0	2.0	3.0	1.5	2.0	8.0	12.0	18.0	25.5	26.0	28.5
4	16.0	9.0	1.5	3.5	1.5	2.0	8.0	11.5	18.5	25.5	25.5	28.5
5	16.5	9.0	1.0	3.0	1.5	1.5	7.0	11.0	19.5	25.5	26.0	29.5
6	16.0	9.0	2.0	3.0	1.0	1.5	6.0	11.5	20.5	25.0	26.5	28.5
7	15.5	8.5	1.5	2.0	2.0	2.0	6.0	11.5	21.5	25.5	26.0	25.0
8	15.0	9.0	1.5	1.5	1.5	5.0	7.0	13.0	22.0	26.0	26.5	23.0
9	14.0	9.0	1.5	1.0	1.0	5.5	7.0	14.0	22.0	26.5	26.5	23.0
10	12.0	8.5	2.0	1.0	0.5	5.5	8.0	13.5	23.5	26.5	27.0	23.0
11	11.5	8.0	1.5	0.5	1.0	5.5	7.0	14.0	23.5	26.5	26.5	23.0
12	13.5	7.0	1.5	1.0	1.0	5.5	6.0	14.0	24.5	24.5	26.5	21.5
13	12.0	7.0	2.0	1.5	1.0	4.5	6.0	13.5	24.5	25.0	26.5	21.0
14	12.0	6.5	3.0	1.5	0.5	5.5	6.0	13.0	24.0	25.0	26.5	21.0
15	11.5	5.0	2.0	1.0	1.0	6.5	6.5	12.0	23.5	24.5	26.5	20.5
16	10.5	3.0	1.5	1.0	0.5	8.0	7.0	11.5	23.5	25.0	26.5	20.0
17	11.0	2.0	1.5	1.0	0.5	7.0	8.5	11.5	21.5	24.5	26.0	20.0
18	11.0	1.5	1.0	1.0	1.0	5.0	8.0	12.0	21.5	24.5	25.5	19.5
19	11.0	1.5	1.5	1.0	1.0	0.5	10.0	12.0	20.5	25.0	25.5	18.5
20	11.0	2.0	2.0	0.5	1.0	2.0	10.5	13.0	21.0	25.0	24.5	19.0
21	11.0	3.0	1.5	0.5	0.5	3.0	12.0	13.5	22.0	24.5	24.5	16.5
22	10.5	2.0	1.5	1.0	1.5	3.5	12.0	13.0	22.0	25.0	24.5	17.0
23	10.0	2.0	2.0	1.5	1.0	4.0	13.0	14.0	22.0	25.0	24.0	17.0
24	9.5	2.0	1.5	1.0	0.5	5.0	12.0	13.5	22.0	27.0	24.0	18.0
25	10.0	1.0	1.5	1.0	0.5	5.5	14.0	13.5	21.5	26.5	24.0	18.0
26	10.0	0.5	1.5	2.0	0.5	5.5	13.5	13.5	23.0	26.0	24.0	17.0
27	9.5	2.0	1.5	3.0	1.0	5.0	12.0	14.5	23.5	26.5	25.0	17.0
28	9.5	3.0	2.0	2.0	1.0	5.0	11.5	15.0	24.0	26.0	26.0	18.0
29	10.0	2.0	1.5	1.5	---	5.5	12.0	15.0	24.0	26.0	26.5	19.0
30	9.5	2.0	2.0	1.0	---	5.5	12.0	16.5	24.5	26.0	26.5	19.5
31	9.5	---	3.0	1.0	---	5.5	---	17.0	---	26.5	27.0	---
AVERAGE	12.5	5.0	2.0	1.5	1.0	4.5	9.0	13.0	22.0	25.5	26.0	21.5

04235505 OWASCO OUTLET BELOW AUBURN, N.Y.

LOCATION.--Lat 42°58'02", long 76°35'58", Cayuga County, at bridge on Division Street Road, 1.0 mi (1.6 km) north of Auburn city line and 2.0 mi (3.2 km) downstream from gaging station (04235500) near Auburn.

DRAINAGE AREA.--206 mi^2 (534 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1970 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV. 08...	1400	528	.60	--	.38	340	7.5	8.5	55	9.7
FEB. 05...	1000	521	1.3	--	.13	390	8.0	.5	3	13.0
MAY 14...	1300	44	1.1	--	.38	440	8.2	8.0	4	12.3
JUNE 05...	1300	42	.93	.06	.26	390	8.2	16.0	1	9.8
AUG. 16...	1000	20	.10	.14	1.4	500	8.1	21.0	4	8.4

DATE	PERCENT SATURATION	CHLOROPHYLL A (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV. 08...	84	6.6	B260000	82000	9.0	24	0	42	70	<.5
FEB. 05...	91	.0	110000	23000	.0	27	0	3	10	5.6
MAY 14...	110	2.0	4200	880	5.2	--	0	3	10	1.1
JUNE 05...	111	.0	880000	B33000	3.0	31	0	1	0	.5
AUG. 16...	93	6.7	819000	500	9.0	40	0	6	50	1.9

DATE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
AUG. 16...	4.1	460	60	167	0	137	4.5	320

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANADIUM (V) (UG/L)
AUG. 16...	8	.00	.1	49	0	20	70	.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

04235505 OWASCO OUTLET BELOW AUBURN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOXAPHENE (UG/L)
MAY											
14...	.00	.0	.00	.00	.00	<.01	.00	.00	.00	.00	.0
AUG.											
16...	.00	.0	.00	.00	.00	.01	.00	.00	.00	.00	.0

DATE	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCH (UG/L)
MAY											
14...	.00	.00	.00	.00	.00	.00	.00	.05	.02	.00	.0
AUG.											
16...	.01	.00	.00	.00	.00	.00	.00	.01	.01	.00	.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)
MAY										
14...	.0	15	61	3.3	5.4	19	.0	.0	.0	.0
AUG.										
16...	.0	0	.0	.0	.0	.2	.0	.0	.0	.0

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
MAY									
14...	0	--	--	--	--	--	--	--	40
AUG.									
16...	0	.0	.0	.0	.0	.0	.0	.0	0

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.						
16...	<4.3	<.4	7.9	.8	6.3	.8

04237500 SENECA RIVER AT BALDWINSVILLE, N.Y.

LOCATION.--Lat 43°09'26", long 76°19'56", Onondaga County, at Erie (Barge) Canal lock 24 in Baldwinsville, 350 ft (107 m) upstream from gaging station.

DRAINAGE AREA.--3,136 mi^2 (8,122 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958.
Water temperatures: October 1957 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 27.0°C Sept. 2, 3; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 28.0°C July 24, 1964; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen Dec. 17-24, Jan. 6-15, 30, to Feb 5, 9 to Mar. 1. No records on weekends December to April. Additional water quality data available from New York State Department of Environmental Conservation.

COOPERATION.--Water temperature record furnished by the New York State Department of Transportation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAY 16...	1600	0	0	3	<.5
SEP. 05...	1500	0	0	4	<.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	8.0	3.0	---	0.0	0.0	---	11.5	15.0	24.0	24.0	26.0
2	17.0	8.0	---	2.0	0.0	2.0	10.0	12.0	16.0	24.5	24.0	27.0
3	16.5	8.0	---	2.0	0.0	---	8.5	12.0	17.0	24.5	24.5	27.0
4	17.0	9.0	3.0	3.5	0.0	---	8.5	11.5	18.0	24.5	25.0	26.5
5	17.0	9.5	1.5	3.0	0.0	2.0	8.0	11.5	18.0	24.5	25.0	26.5
6	17.0	8.5	2.0	0.0	2.0	3.5	7.0	11.0	18.5	24.5	25.0	25.5
7	18.0	8.0	1.5	0.0	2.0	3.0	---	11.0	19.5	25.5	25.0	24.5
8	16.5	8.0	1.5	0.0	1.0	4.5	---	11.0	20.0	25.5	25.5	23.5
9	14.5	8.5	---	0.0	0.0	5.0	7.0	11.5	23.0	25.5	25.5	23.5
10	14.0	8.0	---	0.0	0.0	---	8.0	12.0	23.0	25.5	26.5	22.0
11	13.5	8.0	1.5	0.0	0.0	---	6.5	13.0	23.0	25.5	26.5	21.0
12	13.5	8.5	1.5	0.0	0.0	8.0	6.0	11.5	23.5	24.5	26.0	20.5
13	13.0	8.5	1.5	0.0	0.0	8.0	6.0	14.0	23.0	24.0	25.5	19.5
14	13.0	7.0	2.0	0.0	0.0	6.5	---	13.0	23.0	25.0	24.5	18.5
15	13.5	6.0	1.0	0.0	0.0	7.0	---	13.0	23.0	24.5	25.5	19.0
16	13.0	5.0	---	3.0	0.0	8.5	8.5	12.0	23.0	24.0	24.5	18.5
17	11.5	5.0	0.0	3.0	0.0	---	8.5	11.5	21.0	23.5	23.5	18.5
18	11.0	4.5	0.0	3.0	0.0	---	10.5	10.5	21.0	24.0	25.0	18.0
19	11.0	5.0	0.0	3.0	0.0	6.0	12.0	11.5	20.0	24.0	24.5	17.0
20	10.5	4.5	0.0	---	0.0	5.5	12.0	13.0	20.0	24.5	24.5	17.0
21	11.0	4.0	0.0	---	0.0	5.5	---	13.0	21.0	25.0	24.5	16.0
22	10.5	3.5	0.0	3.0	0.0	5.5	---	12.0	23.5	25.0	24.0	17.0
23	10.0	3.0	0.0	3.0	0.0	4.5	13.5	13.0	23.0	24.0	23.0	18.0
24	10.0	3.0	0.0	---	0.0	---	13.5	13.0	23.0	24.5	22.0	17.0
25	9.0	4.5	---	2.0	0.0	---	13.5	13.5	23.0	24.0	22.0	17.0
26	8.5	4.0	1.5	2.0	0.0	6.0	13.5	14.5	23.0	24.5	23.0	17.0
27	9.0	4.0	2.0	---	0.0	6.5	13.0	15.0	23.5	24.0	23.5	18.0
28	9.0	4.0	2.0	---	0.0	6.5	12.0	15.0	23.5	24.5	24.5	18.0
29	9.0	3.5	1.5	2.0	---	7.0	12.0	14.5	23.0	23.5	25.5	17.0
30	8.5	3.0	---	0.0	---	8.5	11.5	14.5	23.5	23.5	25.5	16.5
31	8.5	---	---	0.0	---	---	---	15.0	---	23.5	25.5	---
AVERAGE	12.5	6.0	---	1.5	0.0	---	---	12.5	21.0	24.5	24.5	20.5

04250504 SALMON RIVER BELOW PULASKI, N.Y.

LOCATION.--Lat 43°34'11", long 76°11'15", Oswego County, at bridge on State Highway 3, at Port Ontario, 0.4 mi (0.6 km) upstream from mouth, and 2.1 mi (3.4 km) west of Pulaski.

DRAINAGE AREA.--267 mi^2 (692 km^2) at mouth.

PERIOD OF RECORD.--Chemical analyses: July 1971 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
JUNE 13...	1700	.19	.00	.01	120	7.7	21.5	2	8.8	99
AUG. 16...	1445	.24	.01	.01	120	7.6	21.5	2	9.3	94

DATE	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE 13...	3.9	B8900	74	3.5	3.5	10	9	0	<.5
AUG. 16...	1.9	B23000	B180	2.0	10	0	2	20	.6

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
AUG. 16...	2.4	80	70	52	0	43	.2	70

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
AUG. 16...	2	.02	.0	4	0	20	25	.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

04250504 SALMON RIVER BELOW PULASKI, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
JUNE											
13...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
16...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
JUNE											
13...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
16...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
JUNE										
13...	.0	0	.0	.0	.0	.0	.0	.0	.0	.0
AUG.										
16...	.0	0	.7	<.1	.3	.2	.0	.0	.0	.0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
JUNE									
13...	0	--	--	--	--	--	--	--	<5
AUG.									
16...	0	.0	.0	.0	.0	.0	.0	.0	20

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.						
16...	<.9	.4	2.9	.5	2.3	.6

04250997 BLACK RIVER (FORESTPORT RESERVOIR) AT FORESTPORT, N.Y.

LOCATION.--Lat 43°26'20", long 75°12'17", Oneida County, at bridge on State Highway 28 and 365, in Forestport, 0.1 mi (0.2 km) upstream from outlet of Alder Pond and 0.4 mi (0.6 km) downstream from Woodhull Creek.

DRAINAGE AREA.--247 mi^2 (640 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
NOV.										
09...	1645	.30	--	.02	350	4.8	8.0	3	10.6	89
FEB.										
14...	1245	.70	--	.01	54	6.9	.0	1	12.9	97
APR.										
11...	1330	.60	--	.00	261	6.8	3.0	1	10.3	92
MAY										
09...	1830	.40	--	.00	41	6.7	11.0	2	9.8	88
JUNE										
12...	1115	.30	.00	.01	47	6.7	21.0	2	8.0	99
AUG.										
15...	1300	.16	.01	.01	36	6.8	20.0	3	8.5	92

DATE	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.									
09...	3.6	B360	B10	5.0	2.5	10	1	0	<.5
FEB.									
14...	1.1	B5	B3	2.0	2.0	10	7	20	<.5
APR.									
11...	.0	B5	B2	2.0	2.0	0	0	0	<.5
MAY									
09...	1.8	B270	22	3.0	--	0	4	30	<.5
JUNE									
12...	11	4300	B17	7.0	2.0	10	3	0	5.0
AUG.									
15...	2.4	B6600	55	7.0	1.0	0	5	10	<.5

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
AUG.								
15...	5.5	530	60	12	0	10	.3	36

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
AUG.								
15...	5	.00	.0	65	0	10	2	1.3

B Results based on colony count outside the acceptable range (non-ideal colony count).

04250997 BLACK RIVER (FORESTPORT RESERVOIR) AT FORESTPORT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
MAY											
09...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY											
09...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
MAY										
09...	.0	0	5.5	1.1	.7	<.1	.0	.0	.0	.0
AUG.										
15...	.0	0	1.9	.7	14	.6	.0	.0	.0	.0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
MAY										
09...	0	--	--	--	--	--	--	--	--	<5
AUG.										
15...	0	.0	.0	.0	.0	.0	.0	.0	.0	0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.						
15...	1.1	1.1	2.7	1.1	2.2	1.0

04254965 BLACK RIVER AT GRIEG, N.Y.

LOCATION.--Lat 43°40'36", long 75°21'39", Lewis County, at bridge on Burdicks Crossing Road, 0.2 mi (0.3 km) upstream from unnamed tributary, and 1.1 mi (1.8 km) downstream from Fish Creek at Grieg.

PERIOD OF RECORD.--Chemical analyses: April to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
APR.										
16...	1040	5.3	200	30	8.2	.8	2.1	.5	21	0
MAY										
08...	1320	5.2	200	10	9.7	.9	2.6	.6	23	0
JUNE										
04...	1330	4.6	230	40	9.6	.9	3.0	.3	26	0
JULY										
03...	1050	5.2	420	30	8.6	.8	2.1	.4	20	0
AUG.										
01...	0915	6.3	760	90	8.3	1.0	4.8	.6	24	0
29...	1045	7.1	570	50	13	1.5	6.9	.8	38	0
SEP.										
24...	1330	6.5	550	60	8.2	1.0	2.7	.6	22	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
APR.										
16...	17	8.7	.9	.2	.46	.00	.23	.00	.00	39
MAY										
08...	19	12	1.3	.2	.33	.02	.11	.00	.00	46
JUNE										
04...	21	8.5	1.1	.2	.26	.01	.21	.00	.00	42
JULY										
03...	16	8.1	2.0	.1	.18	.00	.09	.01	.00	38
AUG.										
01...	20	13	1.1	.3	.15	.00	.24	.01	.01	48
29...	31	21	1.7	.4	.06	.00	.28	.01	.01	72
SEP.										
24...	18	9.1	1.2	.3	.26	.00	.28	.01	.00	42

04254965 BLACK RIVER AT GREIG, N.Y.--Continued

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1973

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
APR.										
16...	13	6	59	36	24	7	62	7.0	17	.0
MAY										
08...	11	2	68	39	28	9	67	6.6	21	.0
JUNE										
04...	2	0	57	40	28	6	67	7.1	--	.0
JULY										
03...	2	0	58	35	25	8	59	6.8	18	.0
AUG.										
01...	4	0	64	40	25	5	75	6.5	68	.0
29...	4	2	94	61	39	7	112	6.5	26	.0
SEP.										
24...	8	0	60	35	25	7	67	6.6	23	.0

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, N.Y.

LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, temperature recorder at gaging station on right bank at downstream side of highway bridge on Donnattsburg Road in Donnattsburg, 1.2 mi (1.9 km) downstream from Chase Lake Outlet, 4.2 mi (6.8 km) northeast of Glenfield, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--91.7 mi² (238 km²).

PERIOD OF RECORD.--Water temperatures: October 1959 to September 1961, October 1963 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 25.5°C July 9; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum (1959-61, 1964-69, 71-73), 26.5°C July 24, 1961; minimum, freezing point on many days during winter periods.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	9.5	4.5	3.5	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0
2	11.5	10.0	5.0	4.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5
3	13.5	10.5	5.5	5.0	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.5
4	14.5	11.5	5.5	5.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5
5	14.5	12.0	5.0	4.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5
6	15.0	12.0	4.0	3.0	1.0	0.5	0.5	0.0	0.0	0.0	0.5	0.5
7	14.5	11.5	3.5	3.0	1.0	0.5	0.5	0.5	0.0	0.0	1.5	0.5
8	11.5	10.5	5.0	3.5	1.0	1.0	0.5	0.0	0.0	0.0	1.0	0.5
9	10.5	8.0	5.0	4.5	1.0	0.5	0.5	0.0	0.0	0.0	1.0	0.5
10	8.0	6.0	4.5	4.5	0.5	0.5	0.0	0.0	0.5	0.0	1.0	1.0
11	8.5	5.5	4.5	4.0	1.0	0.5	0.0	0.0	0.5	0.5	3.0	1.0
12	9.0	8.5	4.0	4.0	0.5	0.5	0.0	0.0	0.5	0.5	3.0	3.0
13	9.0	8.0	4.0	3.5	0.5	0.0	0.0	0.0	0.5	0.0	3.0	2.0
14	8.0	6.5	3.5	2.0	0.0	0.0	0.0	0.0	0.5	0.0	3.0	2.0
15	7.0	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	3.0
16	6.0	5.5	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	5.5	5.0
17	6.0	5.5	1.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	5.5	5.0
18	5.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	5.0	2.0
19	4.5	3.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.5
20	3.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
21	4.0	2.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	2.0	2.0
22	4.5	4.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	2.0	2.0
23	6.0	4.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0
24	6.0	5.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0	5.5	2.0
25	5.5	4.5	0.5	0.5	0.0	0.0	0.5	0.0	0.0	0.0	5.0	4.0
26	5.0	4.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	7.0	5.0
27	5.0	4.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	6.5	5.0
28	6.0	4.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	5.5	4.5
29	6.5	6.0	1.0	0.5	0.0	0.0	0.0	0.0	---	---	5.5	4.5
30	6.0	4.5	1.0	0.5	0.0	0.0	0.5	0.0	---	---	6.0	5.5
31	4.5	3.5	---	---	0.0	0.0	0.0	0.0	---	---	9.5	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.0	10.5	9.0	13.5	11.5	21.0	19.0	23.0	21.0	24.5	21.5
2	7.0	5.0	11.5	10.5	15.5	11.5	22.0	19.0	22.0	20.5	24.0	21.5
3	5.0	4.5	11.5	10.5	16.0	12.0	22.0	20.0	23.0	21.0	24.5	21.5
4	4.5	4.5	10.5	8.5	16.5	15.5	24.0	20.5	23.0	20.0	24.5	21.5
5	4.5	3.5	8.5	7.0	18.5	15.5	23.0	20.5	23.5	19.0	24.0	21.5
6	3.5	3.0	10.0	6.5	20.5	17.0	22.0	19.5	23.5	19.5	24.0	21.0
7	5.0	3.0	12.0	8.0	20.0	19.0	23.0	18.5	24.0	20.5	21.5	19.0
8	5.5	4.5	11.5	10.5	20.0	17.0	25.0	20.0	24.5	20.5	19.0	17.0
9	5.5	4.0	10.5	10.0	20.0	18.0	25.5	21.0	24.5	21.0	17.0	15.5
10	5.5	3.5	13.0	10.0	20.0	16.0	24.0	20.5	24.0	21.5	16.5	13.0
11	3.5	2.0	13.0	11.5	23.0	18.5	20.5	18.5	24.5	21.0	18.0	15.0
12	3.5	0.5	12.0	10.5	23.0	20.5	18.5	15.0	23.5	21.5	16.5	15.0
13	3.5	1.0	10.5	9.5	21.5	19.5	17.0	15.0	22.0	20.5	16.5	14.0
14	5.0	1.5	10.0	9.0	20.5	17.0	20.5	16.5	23.0	19.5	16.0	14.5
15	6.5	3.5	9.0	7.0	19.5	15.0	19.0	17.0	21.0	19.0	16.0	14.5
16	9.5	5.0	11.5	7.0	15.0	14.0	21.0	15.5	21.5	18.5	16.0	15.0
17	10.5	8.5	11.5	8.0	18.5	13.5	21.5	15.5	22.0	19.0	15.5	13.0
18	11.0	9.0	8.0	4.5	17.0	14.0	22.0	16.0	21.5	19.5	15.0	13.5
19	13.0	9.5	5.0	4.5	18.0	14.0	21.5	16.5	21.0	19.0	14.5	12.0
20	13.5	10.0	6.0	4.5	21.5	16.0	20.5	18.0	22.0	18.5	14.5	12.0
21	14.0	11.5	7.0	6.0	20.5	19.0	21.0	18.0	21.0	19.5	13.0	10.0
22	15.0	13.0	9.5	6.5	19.0	17.0	21.5	16.0	20.5	16.5	11.5	10.5
23	14.0	11.5	11.5	8.5	19.0	17.0	21.5	16.0	19.0	14.5	13.5	11.5
24	11.5	10.0	11.5	10.0	19.5	17.0	22.0	16.0	20.5	16.5	14.0	13.5
25	11.0	9.0	13.5	11.0	21.0	17.0	21.0	17.0	20.5	16.5	15.0	13.5
26	11.0	10.0	14.5	12.0	21.5	18.0	23.0	19.0	20.0	18.0	16.0	14.5
27	10.5	9.0	14.0	12.0	22.0	19.5	23.0	19.5	21.5	19.5	17.0	15.0
28	9.0	8.5	13.5	13.0	21.0	19.5	24.5	20.0	23.0	21.0	17.0	15.5
29	8.5	6.5	15.0	13.0	20.0	19.0	21.5	20.0	23.5	20.5	15.5	14.0
30	9.5	5.5	15.0	14.0	20.5	18.0	22.0	20.0	24.5	21.0	14.0	11.5
31	---	---	14.5	13.5	---	---	24.0	20.0	24.5	21.5	---	---

04257150 BEAVER RIVER AT MOSHIER FALLS, N.Y.

LOCATION.--Lat 43°32'20", long 75°08'10", Herkimer County, at the Niagara-Mohawk Moshier Falls Power Station, at mouth of Sunday Creek and 2.2 mi (3.5 km) east of Number Four.

DRAINAGE AREA.--184 mi² (477 km²).

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 23.0°C Aug. 13-17; minimum, 1.0°C Jan 29, Feb 11, 27.

Period of record:
Water temperatures: Maximum, 23.5°C Sept. 10, 1959; minimum, freezing point on Jan. 1, 2, 1969.

COOPERATION.--Water temperature record furnished by the Niagara Mohawk Power Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT BETWEEN 0900 AND 1300)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	6.5	2.0	2.0	1.5	1.5	5.0	8.0	11.5	18.0	21.5	22.0
2	15.0	6.5	2.0	2.0	2.0	1.5	4.5	9.0	12.0	19.0	21.5	22.0
3	15.0	6.5	2.0	2.0	1.5	1.5	4.5	9.0	12.0	19.0	21.5	22.0
4	15.0	6.5	1.5	3.0	1.5	1.5	4.0	9.0	12.0	18.5	21.5	22.0
5	15.5	6.5	2.0	1.5	1.5	2.0	4.0	8.5	13.0	19.0	21.5	22.0
6	15.5	6.0	2.0	1.5	1.5	2.0	4.0	8.5	13.5	19.5	21.5	22.0
7	15.0	6.0	1.5	1.5	2.0	2.0	4.0	9.0	13.5	19.5	21.5	21.5
8	15.0	6.0	1.5	1.5	2.0	3.0	4.0	9.5	14.0	19.5	21.5	21.0
9	13.5	6.0	2.0	1.5	1.5	2.0	4.5	9.5	14.5	19.5	22.0	21.0
10	11.0	6.0	2.0	1.5	1.5	1.5	4.0	9.5	14.5	20.0	22.0	20.0
11	11.0	5.5	1.5	1.5	1.0	2.0	4.0	9.5	15.0	20.0	22.0	19.5
12	11.0	5.5	2.0	1.5	1.5	2.0	4.0	9.5	15.5	20.0	22.0	19.5
13	11.0	5.5	2.0	1.5	1.5	2.0	3.0	9.5	15.5	20.0	23.0	19.0
14	11.5	5.0	2.0	1.5	1.5	2.0	3.0	9.5	15.5	19.5	23.0	18.5
15	11.0	5.0	2.0	1.5	1.5	2.0	4.0	9.5	16.0	19.0	23.0	18.5
16	10.5	4.5	2.0	1.5	1.5	2.0	4.0	9.5	16.0	20.0	23.0	18.0
17	10.0	4.0	1.5	1.5	1.5	2.0	4.5	9.5	16.0	20.0	23.0	18.0
18	9.5	4.0	1.5	2.0	1.5	2.0	6.0	9.5	16.0	20.0	22.0	17.0
19	9.5	4.0	2.0	3.0	2.0	2.0	7.0	8.5	16.0	20.0	22.0	16.5
20	9.0	3.5	2.0	2.0	2.0	2.0	8.5	8.0	17.0	20.0	22.0	16.0
21	9.0	3.5	2.0	2.0	1.5	1.5	8.0	9.0	17.0	20.0	22.0	16.0
22	8.5	3.5	2.0	1.5	1.5	1.5	8.5	9.0	17.0	19.0	21.5	16.0
23	8.5	1.5	2.0	1.5	1.5	1.5	8.0	9.5	17.0	20.0	22.0	14.5
24	8.0	3.0	2.0	1.5	1.5	1.5	6.5	10.0	18.5	20.5	21.5	15.0
25	8.0	3.0	2.0	1.5	1.5	2.0	9.0	10.0	18.0	21.0	21.5	15.0
26	8.0	3.0	2.0	2.0	1.5	2.0	9.5	10.0	18.0	21.0	21.5	15.0
27	8.0	3.0	2.0	2.0	1.0	2.0	9.5	10.0	18.5	21.0	21.5	15.0
28	7.0	3.0	2.0	2.0	1.5	2.0	9.5	10.5	18.5	21.0	21.5	15.0
29	7.0	3.0	2.0	1.0	---	3.0	8.0	11.0	19.0	21.0	21.5	14.5
30	7.0	3.0	2.0	1.5	---	3.0	8.5	11.0	19.0	21.0	21.5	12.0
31	6.5	---	2.0	1.5	---	4.0	---	11.5	---	21.5	21.5	---
AVERAGE	11.0	4.5	2.0	2.0	1.5	2.0	6.0	9.5	15.5	20.0	22.0	18.0

04258710 BLACK RIVER ABOVE CARTHAGE, N.Y.

LOCATION.--Lat 43°56'58", long 75°33'49", Lewis County, 100 feet off State Highway 26A, 1.1 mi (1.8 km) downstream from Deer River, and 1.8 mi (2.9 km) southeast of Carthage.

DRAINAGE AREA.--1,780 mi² (4,610 km²) at mouth of Deer River.

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
NOV.										
09...	1400	.30	--	.13	59	5.4	6.0	20	9.0	72
FEB.										
15...	1300	.50	--	.02	62	6.0	.0	2	11.9	86
APR.										
12...	1330	.50	--	.02	42	7.1	3.5	4	10.3	88
MAY										
10...	1600	.30	--	.01	77	7.0	14.5	2	8.8	86
JUNE										
12...	1345	.19	.00	.02	73	7.1	22.0	2	6.5	76
AUG.										
15...	1730	.14	.01	.02	63	7.2	22.5	3	5.7	65

DATE	CHLOROPHYLL A (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.									
09...	3.6	6500	1900	--	--	10	2	0	<.5
FEB.									
15...	.0	B1900	B0	5.0	3.0	10	2	0	<.5
APR.									
12...	.0	B100	B9	3.0	4.0	0	1	0	<.5
MAY									
10...	2.4	2400	73	1.5	--	10	1	10	<.5
JUNE									
12...	7.3	1800	44	8.0	4.0	10	3	0	<.5
AUG.									
15...	1.8	B12000	1300	8.0	1.0	0	2	10	.7

DATE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
AUG.								
15...	5.9	530	100	21	0	17	.4	48

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANADIUM (V) (UG/L)
AUG.								
15...	10	.01	.0	8	0	10	29	.6

B Results based on colony count outside the acceptable range (non-ideal colony count).

04258710 BLACK RIVER ABOVE CARTHAGE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
MAY											
10...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY											
10...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
15...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
MAY										
10...	.0	0	.3	.1	.0	.1	.0	.0	.0	.0
AUG.										
15...	.0	0	.3	.0	.0	.1	.0	.0	.0	.0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
MAY									
10...	0	--	--	--	--	--	--	--	<5
AUG.									
15...	0	.0	.0	.0	.0	.0	.0	.0	<5

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.						
15...	.8	1.2	2.8	1.2	2.3	1.1

04258750 BLACK RIVER BELOW CARTHAGE, N.Y.

LOCATION.--Lat 43°59'53", long 75°38'17", Jefferson County, at railroad bridge of Penn-Central Transportation Company, 800 ft (244 m) west of State Highway 3, 0.8 mi (1.3 km) northwest of Carthage, and 2.1 mi (3.4 km) downstream from bridge on State Highway 26.

DRAINAGE AREA.--1,809 mi^2 (4,685 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
NOV. 09...	1145	.40	--	.13	66	5.3	6.5	25	8.8	71
FEB. 15...	1030	.60	--	.03	43	7.1	1.0	6	11.0	87
APR. 12...	1100	.50	--	.02	98	7.2	3.5	3	10.1	84
MAY 10...	1230	.30	--	.02	71	7.2	13.5	4	9.8	92
JUNE 13...	1615	.19	.00	.02	62	7.0	21.5	4	8.1	91
AUG. 15...	2030	.15	.01	.01	74	7.3	23.0	4	8.2	94

DATE	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV. 09...	6.9	14000	--	10	7.5	10	13	50	<.5
FEB. 15...	.0	7300	8500	6.0	5.0	10	8	0	<.5
APR. 12...	2.8	2500	260	12	6.0	0	0	0	<.5
MAY 10...	1.3	4900	1100	3.5	--	0	5	30	<.5
JUNE 13...	2.6	8400	860	6.0	4.5	10	7	0	<.5
AUG. 15...	.4	820000	B2900	6.0	4.0	10	5	30	.6

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
AUG. 15...	5.7	700	100	24	0	20	.3	54

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
AUG. 15...	4	.01	.0	65	0	10	26	.2

B Results based on colony count outside the acceptable range (non-ideal colony count).

04258750 BLACK RIVER BELOW CARTHAGE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
MAY 10...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 15...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY 10...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 15...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
MAY 10...	.0	0	.7	--	.3	.8	.0	.0	.0	.0
AUG. 15...	.0	0	5.2	.0	.0	.0	.0	.0	.0	.0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
MAY 10...	0	--	--	--	--	--	--	--	260
AUG. 15...	0	.0	.0	.0	.0	.0	.0	.0	13000

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 15...	<.7	<.4	3.1	.5	2.5	.5

04259980 BLACK RIVER AT HUNTINGTONVILLE, N.Y.

LOCATION.--Lat 43°59'01", long 75°51'43", Jefferson County, at Watertown water department dosing station at middle of right channel at Huntington Island, 0.5 mi (0.8 km) north of Huntingtonville, and 3.8 mi (6.1 km) upstream of gaging station (04260500) at Watertown.

DRAINAGE AREA.--1,876 mi² (4,859 km²) at gaging station.

PERIOD OF RECORD.--Water temperatures: April 1969 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 26.0°C Sept. 3-5; minimum, freezing point on several days during December to February.

Period of record:
Water temperatures: Maximum, 26.0°C Sept. 3-5, 1973; minimum, freezing point on many days during winter periods 1972-73.

REMARKS.--No record on Sundays.

COOPERATION.--Water temperature record furnished by the City of Watertown.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT AT APPROXIMATELY 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.5	1.0	1.0	0.0	0.5	---	11.0	15.0	---	24.0	24.5
2	14.0	5.5	0.5	0.5	0.5	0.5	8.5	11.5	15.5	23.5	24.0	---
3	14.0	6.0	1.0	0.5	0.5	0.5	8.0	11.0	---	23.5	24.5	26.0
4	14.5	6.5	1.0	0.5	---	0.5	6.5	11.0	17.0	24.5	24.5	26.0
5	14.5	---	1.0	0.5	0.0	0.5	6.0	10.5	18.5	24.0	---	26.0
6	14.5	5.5	0.5	0.5	0.0	0.5	5.0	---	19.5	23.5	23.5	24.5
7	14.0	5.5	0.5	---	0.0	0.5	5.5	11.5	20.0	24.0	24.5	22.0
8	11.5	6.5	1.0	0.5	0.0	1.5	---	13.0	20.5	---	24.5	21.0
9	10.0	6.5	0.0	0.0	0.0	2.0	6.5	11.5	21.0	25.0	25.0	---
10	9.0	6.5	---	0.5	0.0	1.0	6.5	12.0	---	25.0	25.0	18.5
11	9.0	6.0	0.5	0.5	---	---	5.0	11.5	21.5	23.5	25.0	18.5
12	10.5	---	0.5	0.0	0.0	3.0	4.5	13.0	22.0	22.0	---	19.0
13	9.5	6.0	1.0	0.0	0.5	3.5	5.0	12.0	22.0	22.0	25.0	18.0
14	9.5	4.5	0.5	---	0.5	3.0	6.0	12.0	21.0	22.0	24.0	17.0
15	---	3.0	0.5	0.5	0.5	4.5	---	11.5	20.5	23.0	24.5	16.5
16	8.0	3.5	0.5	0.5	0.5	5.5	8.5	10.5	19.0	23.5	23.5	---
17	8.0	3.0	---	0.5	0.5	5.5	10.0	11.5	---	23.0	24.0	15.5
18	8.0	1.5	0.5	0.5	0.0	3.5	11.5	10.0	19.0	23.0	23.5	16.0
19	6.0	---	1.0	0.5	0.5	3.5	14.0	9.0	18.0	23.5	---	14.5
20	5.0	1.5	1.0	0.5	0.5	3.5	15.0	10.0	19.5	23.5	23.0	15.0
21	5.5	1.5	1.0	---	0.5	3.0	15.0	10.0	20.5	23.0	23.5	13.0
22	---	1.0	1.0	0.5	0.5	1.5	---	10.0	20.5	22.0	22.0	13.0
23	6.5	1.5	1.0	0.5	0.5	2.0	14.0	11.0	21.0	23.0	20.5	---
24	6.5	1.0	---	0.5	0.5	3.5	14.5	12.0	22.0	24.0	20.5	13.5
25	6.0	0.5	1.0	0.5	0.5	---	14.0	13.5	21.5	23.5	20.5	13.0
26	5.5	---	1.0	0.5	0.5	5.5	13.5	14.5	21.5	24.0	21.0	14.0
27	6.0	1.5	1.0	0.5	0.5	5.5	13.5	---	22.0	24.5	22.0	14.5
28	6.0	1.0	0.5	---	0.5	5.5	11.0	15.5	23.0	24.0	23.0	15.5
29	---	1.0	0.0	0.5	---	6.5	---	15.5	22.0	24.0	24.0	15.5
30	5.5	1.0	1.0	0.0	---	7.0	8.5	16.0	22.0	24.0	24.5	---
31	5.5	---	---	0.0	---	8.0	---	16.0	---	24.5	24.5	---
AVERAGE	9.0	3.5	1.0	0.5	0.5	3.0	9.5	12.0	20.5	23.5	23.5	18.0

04260500 BLACK RIVER AT WATERTOWN, N.Y.

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, at gaging station at Vanduzee Street Bridge in Watertown, and 3.5 mi (5.6 km) upstream from Philomel Creek.

DRAINAGE AREA.--1,876 mi² (4,859 km²).

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, August 1965 to September 1973.
Water temperatures: October 1955 to September 1959, July 1962 to March 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT.										
03...	1025	3600	6.5	480	10	16	1.1	3.0	.8	43
25...	1100	2300	6.1	440	20	12	1.1	2.8	.8	35
NOV.										
14...	1000	9670	5.0	320	40	11	1.0	1.6	1.0	23
DEC.										
12...	1045	9600	5.3	360	10	12	1.1	2.2	.8	26
JAN.										
09...	1100	5952	5.5	260	30	13	1.1	2.9	.5	29
FEB.										
06...	1030	16160	4.0	1100	80	10	.8	1.5	.7	24
MAR.										
06...	1030	7900	4.7	1100	100	15	1.3	2.4	1.4	40
APR.										
03...	1030	12000	3.9	2800	90	17	1.4	2.4	1.0	48
MAY										
01...	1000	4920	4.5	380	0	15	1.4	2.6	.6	45
JUNE										
13...	1045	3080	2.5	650	60	12	1.0	2.1	.5	32
JULY										
24...	1545	950	6.1	450	20	13	1.2	3.0	.7	38
AUG.										
16...	0830	2600	5.9	290	60	12	1.1	3.3	.8	33
SEP.										
19...	1630	1770	5.6	390	50	12	1.3	4.6	.4	34

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT.										
03...	0	35	10	1.8	.1	.14	.00	.46	.02	.00
25...	0	29	12	1.7	.0	.16	.00	.42	.03	.00
NOV.										
14...	0	19	11	1.7	.0	.36	.00	.39	.02	.00
DEC.										
12...	0	21	11	2.4	.0	.50	.00	.34	.05	.00
JAN.										
09...	0	24	12	4.5	.0	.59	.00	.39	.01	.00
FEB.										
06...	0	20	12	1.5	.0	.62	.00	.26	.03	.00
MAR.										
06...	0	33	9.0	3.5	.2	.94	.00	.33	.08	.03
APR.										
03...	0	39	12	.8	.3	.54	.01	.64	.07	.01
MAY										
01...	0	37	10	2.4	.1	.26	.00	.16	.02	.00
JUNE										
13...	0	26	20	1.3	.5	.15	.00	.35	.02	.00
JULY										
24...	0	31	10	1.5	.3	.30	.00	.13	.03	.01
AUG.										
16...	0	27	11	1.4	.4	.30	.00	.17	.02	.02
SEP.										
19...	0	28	13	1.9	.3	.11	.00	.22	.01	.00

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04260500 BLACK RIVER AT WATERTOWN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.										
03...	61	6	2	79	61	44	9	96	7.5	14.0
25...	55	5	2	68	36	34	6	84	7.6	--
NOV.										
14...	46	11	2	66	41	32	13	78	7.2	4.5
DEC.										
12...	50	12	7	65	46	34	13	77	6.8	.0
JAN.										
09...	57	13	6	63	53	34	10	90	7.0	.0
FEB.										
06...	45	28	22	64	45	28	9	66	7.2	.0
MAR.										
06...	62	26	18	89	74	43	10	99	7.0	1.0
APR.										
03...	65	59	49	122	94	48	9	103	7.6	7.0
MAY										
01...	60	6	2	87	70	43	6	98	7.1	11.0
JUNE										
13...	57	7	3	79	46	34	8	77	7.0	21.0
JULY										
24...	56	4	3	77	56	37	6	91	7.6	25.5
AUG.										
16...	54	5	2	68	52	34	7	87	7.9	22.0
SEP.										
19...	56	6	4	71	48	35	7	94	7.0	15.5

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
03...	9.8	94	12	5500	B370	.0	--	--	--	--
25...	--	--	14	--	--	.0	--	--	--	--
NOV.										
14...	12.0	92	18	B1220	B710	.0	10	0	1	<.5
DEC.										
12...	16.0	110	11	2500	250	.0	--	--	--	--
JAN.										
09...	14.6	100	12	--	--	.0	--	--	--	--
FEB.										
06...	14.2	97	8	B1200	210	.0	--	--	--	--
MAR.										
06...	14.0	99	12	2800	470	.0	--	--	--	--
APR.										
03...	12.4	102	16	6400	B1000	.0	--	--	--	--
MAY										
01...	9.1	82	13	3300	B890	.0	--	--	--	--
JUNE										
13...	6.8	76	17	1200	1100	.0	--	--	--	--
JULY										
24...	7.5	97	14	33000	B800	.0	--	--	--	--
AUG.										
16...	8.6	98	14	34000	1400	.0	--	--	--	--
SEP.										
19...	10.1	102	15	5200	B140	.0	<1	60	9	<.5

B Results based on colony count outside the acceptable range (non-ideal colony count).

04260505 BLACK RIVER BELOW WATERTOWN, N.Y.

LOCATION.--Lat 43°59'44", long 75°56'01", Jefferson County, at bridge on Interstate Highway 81 in Watertown, 0.9 mi (1.4 km) downstream from gaging station (04260500) at Watertown.

DRAINAGE AREA.--1,876 mi² (4,859 km²) at gaging station.

PERIOD OF RECORD--Chemical analyses: August 1971 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV. 09...	0915	E8360	.30	--	.09	166	5.6	5.0	15	10.3
FEB. 14...	1615	E3580	.60	--	.03	98	7.3	--	4	11.6
APR. 12...	0815	E7980	.50	--	.02	105	7.1	3.0	4	11.7
MAY 10...	0930	E3080	.30	--	.02	96	7.2	12.0	4	9.0
JUNE 13...	0830	E3380	.19	.00	.02	82	7.2	21.5	6	8.5
AUG. 16...	1115	E2520	.13	.01	.02	95	7.8	22.5	4	9.2

DATE	PERCENT SATURATION	CHLOROPHYLL A (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV. 09...	80	5.0	14000	4200	4.5	11	10	3	20	<.5
FEB. 14...	87	.0	2600	370	2.0	8.0	0	5	10	<.5
APR. 12...	91	2.8	B9400	2500	3.5	6.0	0	2	0	<.5
MAY 10...	87	.8	5900	700	3.0	--	10	1	20	<.5
JUNE 13...	96	3.8	9000	520	6.0	5.0	10	6	10	<.5
AUG. 16...	105	1.8	21000	B2000	5.0	5.0	0	2	20	.7

DATE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
AUG. 16...	5.9	550	100	36	0	30	.3	64

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANADIUM (V) (UG/L)
AUG. 16...	6	.00	.0	82	0	10	27	.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

CONTINUED NEXT PAGE

04260505 BLACK RIVER BELOW WATERTOWN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
MAY 10...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 16...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY 10...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 16...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
MAY 10...	.0	0	.0	.0	.0	<.1	.0	.0	.0	.0	0	10

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 16...	1.3	.9	2.9	1.1	2.3	1.0

04260712 ST. LAWRENCE RIVER AT CAPE VINCENT, N.Y.

LOCATION.--Lat 44°07'48", long 76°20'10", Jefferson County, at end of U.S. Coast Guard Station dock in Cape Vincent and approximately 1,500 ft (457 m) downstream from village water intake.

DRAINAGE AREA.--292,000 mi² (756,000 km²) approximately.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
24...	1400	.4	80	0	41	7.1	13	1.4	114	0
NOV.										
29...	1100	.5	110	0	44	8.2	13	1.6	117	0
APR.										
09...	1000	.2	140	40	42	7.7	13	1.4	115	0
MAY										
08...	--	.8	0	0	42	7.9	13	1.5	108	0
JUNE										
04...	1015	.1	0	10	40	7.4	13	1.3	110	0
JULY										
05...	1315	.2	0	10	39	7.2	13	1.6	108	0
30...	1010	.2	0	0	37	8.0	13	1.4	106	0
AUG.										
27...	1000	.2	20	10	36	8.2	14	1.8	104	0
SEP.										
24...	1015	.3	40	0	31	8.1	18	1.5	106	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.										
24...	94	30	29	.1	.11	.00	.23	.02	.01	179
NOV.										
29...	96	31	26	.1	.20	.00	.34	.01	.01	183
APR.										
09...	94	26	26	.2	.24	.00	.42	.02	.00	174
MAY										
08...	89	28	28	.2	.17	.01	.33	.01	.00	175
JUNE										
04...	90	25	28	.2	.09	.01	.43	.01	.00	170
JULY										
05...	89	26	28	.2	.00	.00	.22	.02	.01	169
30...	87	27	28	.2	.17	.00	.16	.01	.01	168
AUG.										
27...	85	22	27	.4	.11	.00	.22	.00	.00	161
SEP.										
24...	87	27	29	.3	.13	.00	.19	.01	.00	168

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
24...	2	0	195	155	130	38	319	8.2	7	.0
NOV.										
29...	5	0	211	165	140	44	332	7.8	5	.0
APR.										
09...	6	4	218	169	140	42	328	7.9	7	.0
MAY										
08...	0	0	208	158	140	49	316	7.5	6	.0
JUNE										
04...	1	0	225	164	130	40	316	8.0	6	.0
JULY										
05...	0	0	228	164	130	38	321	7.9	7	.0
30...	1	0	219	155	130	38	308	8.0	8	.0
AUG.										
27...	1	0	187	154	120	38	308	8.0	5	.0
SEP.										
24...	0	2	184	150	110	24	317	7.7	7	.0

04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.

LOCATION.--Lat 44°20'05", long 75°28'17", St. Lawrence County, at bridge on U.S. Highway 11, 50 ft (15 m) upstream from dam in Gouverneur.

DRAINAGE AREA.--720 mi^2 (1,865 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION
NOV.										
14...	1245	.20	--	.01	67	8.3	4.0	7	11.6	89
FEB.										
05...	0950	.50	--	.05	40	8.3	.0	5	13.8	96
MAY										
01...	1315	.20	--	.01	78	8.8	12.0	5	10.4	97
AUG.										
08...	0900	.29	.01	.01	90	8.3	24.0	4	6.9	82

DATE	CHLORO- PHYLL A (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN- ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.									
14...	.7	81000	8820	6.5	3.5	10	240	80	<.5
FEB.									
05...	16	800	370	4.0	1.5	10	130	60	<.5
MAY									
01...	3.8	1100	370	8.0	--	10	30	--	<.5
AUG.									
08...	.0	13000	3200	4.0	6.0	0	1200	180	.8

DATE	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
AUG.								
08...	4.7	630	50	26	0	21	.4	70

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA- DIUM (V) (UG/L)
AUG.								
08...	4	.00	.0	0	0	80	1	.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX- APHENE (UG/L)
MAY 01...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI- AZINON (UG/L)	ETHION (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	METHYL TRI- THION (UG/L)	PARA- THION (UG/L)	TRI- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY 01...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.1
AUG. 08...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)
MAY 01...	.0	0	4.2	1.8	9.4	.2	.0	.0	.0	.0
AUG. 08...	.0	0	2.5	.0	1.4	.7	.0	.0	.0	.0

DATE	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON IN BOTTOM DE- POSITS (UG/KG)	ETHION IN BOTTOM DE- POSITS (UG/KG)	MALA- THION IN BOTTOM DE- POSITS (UG/KG)	METHYL PARA- THION IN BOT- TOM DE- POSITS (UG/KG)	METHYL TRI- THION IN BOT- TOM DE- POSITS (UG/KG)	PARA- THION IN BOTTOM DE- POSITS (UG/KG)	TRI- THION IN BOTTOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)
MAY 01...	0	--	--	--	--	--	--	--	700
AUG. 08...	0	.0	.0	.0	.0	.0	.0	.0	500

RADIOCHEMICAL ANALYSIS

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 08...	<1.1	.6	3.6	.6	2.9	.6

04263990 OSWEGATCHIE RIVER AT OGDENSBURG, N.Y.

LOCATION.--Lat 44°41'03", long 75°29'20", St. Lawrence County, at bridge on State Highway 37 in Ogdensburg and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--1,602 mi^2 (4,149 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970, July 1972 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
APR.										
13...	1000	2.9	310	40	15	3.2	1.9	1.0	46	0
MAY										
10...	1420	2.0	260	10	15	3.7	2.2	1.0	50	0
JUNE										
06...	0800	2.1	300	40	16	4.0	2.0	.7	58	0
JULY										
02...	1830	3.4	290	10	15	3.4	2.8	.7	50	0
31...	1810	4.1	350	20	12	2.7	3.2	.7	34	0
AUG.										
28...	0830	3.0	220	30	15	3.3	2.5	1.0	40	0
SEP.										
25...	0945	5.1	300	20	13	3.7	4.0	1.2	33	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
APR.										
13...	38	11	5.3	.2	.18	.01	.24	.02	.00	64
MAY										
10...	41	12	1.0	.1	.14	.00	.28	.03	.01	63
JUNE										
06...	48	9.8	.7	.2	.10	.01	.27	.02	.00	65
JULY										
02...	41	10	2.0	.2	.20	.02	.18	.03	.01	63
31...	28	14	2.1	.3	.39	.00	.17	.04	.02	58
AUG.										
28...	33	15	2.4	.4	.31	.00	.25	.02	.02	64
SEP.										
25...	27	23	3.7	.4	.44	.00	.22	.00	.00	72

DATE	TOTAL NON-FILT-RABLF RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUF (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
APR.										
13...	8	6	71	46	51	13	101	7.0	14	.0
MAY										
10...	5	4	88	62	53	12	112	7.0	15	.0
JUNE										
06...	3	0	86	61	56	9	119	7.3	16	.0
JULY										
02...	2	0	78	53	51	10	115	7.3	14	.0
31...	3	0	73	48	41	13	98	7.2	14	.0
AUG.										
28...	3	1	80	65	51	18	114	7.0	16	.0
SEP.										
25...	2	2	93	72	48	21	132	7.0	11	.0

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT. - NEAR MASSENA, N.Y.
(International Hydrologic Decade River Station)

LOCATION.--Lat 45°00'22", long 74°48'43", Stormont County, Ontario - St. Lawrence County, New York, at Robert Moses - Robert H. Saunders Power Dam on Lake St. Lawrence at the International Boundary at Cornwall, Ontario, 2.9 mi (4.7 km) upstream from Grass River, 6.2 mi (10.0 km) upstream from Raquette River, and 5.9 mi (9.5 km) northeast of Massena, N.Y.

DRAINAGE AREA.--299,000 mi² (774,410 km²).

PERIOD OF RECORD.--Water temperatures: October 1955 to October 1958, January 1966 to September 1973. Prior to October 1970, published as "near Massena, N.Y."

EXTREMES.--1972-73:
Water temperatures: Maximum, 24.5°C on several days during August and September; minimum, 0.5°C on many days winter period.

Period of record: Maximum, 24.5°C on several days during August and September 1973; minimum, freezing point on many days during winter periods most years.

REMARKS.--Measurements made approximately 68 ft (21 m) below normal forebay level. Records for period October 1955 to October 1958 collected at Aluminum Company of America Massena Canal Power Station and are unpublished.

COOPERATION.--Water temperature record furnished by the Power Authority of the State of New York.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	9.5	5.0	0.5	0.5	0.5	3.0	7.0	11.5	19.0	23.0	23.5
2	17.0	9.5	5.0	0.5	0.5	0.5	3.5	7.0	12.0	19.5	23.0	23.5
3	17.0	10.0	4.5	0.5	0.5	0.5	3.5	8.0	12.0	19.5	23.5	24.0
4	17.0	9.5	4.5	0.5	0.5	0.5	3.5	8.0	13.0	20.0	23.5	24.5
5	17.0	9.5	4.0	0.5	0.5	0.5	3.5	8.0	13.0	20.5	23.5	24.5
6	17.0	9.5	4.0	0.5	0.5	0.5	3.5	8.0	13.0	20.5	23.5	24.5
7	17.0	9.5	4.0	0.5	0.5	0.5	3.5	8.0	14.0	21.0	23.5	24.0
8	16.0	9.0	4.0	0.5	0.5	0.5	4.0	8.5	14.0	21.5	23.5	23.5
9	15.0	9.0	3.5	0.5	0.5	1.0	4.0	8.5	14.5	21.5	23.5	23.0
10	15.0	9.0	3.5	0.5	0.5	1.0	3.5	9.0	15.0	22.0	24.0	22.5
11	15.0	9.0	3.0	0.5	0.5	1.0	3.5	9.5	15.5	21.5	24.0	22.5
12	15.0	9.0	3.0	0.5	0.5	1.0	3.5	9.5	16.0	21.0	24.0	22.0
13	14.5	9.0	3.0	0.5	0.5	1.0	3.5	9.5	16.5	21.0	24.5	22.0
14	14.5	9.0	3.0	0.5	0.5	1.0	4.0	9.5	16.5	21.0	24.5	21.5
15	13.5	8.0	3.0	0.5	0.5	1.0	4.5	9.5	16.5	21.0	24.5	21.0
16	13.0	8.0	2.0	0.5	0.5	1.5	5.0	---	16.5	21.0	24.5	21.0
17	13.0	7.0	1.5	0.5	0.5	1.5	5.0	9.5	16.0	21.5	24.5	20.5
18	12.0	7.0	1.0	0.5	0.5	1.5	5.0	9.5	16.0	21.5	24.5	20.0
19	11.5	7.0	1.0	0.5	0.5	2.0	5.5	9.5	16.0	21.5	24.5	19.5
20	11.0	7.0	1.0	0.5	0.5	2.0	6.0	10.0	16.5	22.0	24.5	19.5
21	11.0	6.5	0.5	0.5	0.5	2.0	6.5	10.0	17.0	22.0	---	19.0
22	11.0	6.0	0.5	0.5	0.5	2.0	6.5	10.0	17.0	22.0	24.5	18.5
23	11.0	6.0	0.5	0.5	0.5	2.0	7.5	10.0	17.0	22.0	24.5	18.5
24	10.5	6.0	0.5	0.5	0.5	2.0	7.0	10.0	17.0	22.5	23.0	18.0
25	10.5	6.0	0.5	0.5	0.5	2.5	7.0	10.5	17.5	23.0	23.0	18.0
26	10.5	6.0	0.5	0.5	0.5	2.5	7.0	10.5	18.0	23.0	23.0	18.0
27	10.0	6.0	0.5	0.5	0.5	2.5	7.5	10.5	18.0	23.0	23.0	18.0
28	10.0	5.5	0.5	0.5	0.5	2.5	7.5	11.0	19.0	23.0	23.0	18.0
29	10.0	5.5	0.5	0.5	---	3.0	7.0	11.0	19.0	23.5	23.0	18.0
30	10.0	5.5	0.5	0.5	---	3.0	7.0	11.0	19.0	23.5	23.5	18.0
31	10.0	---	0.5	0.5	---	3.0	---	11.0	---	23.0	23.5	---
AVERAGE	13.5	8.0	2.0	0.5	0.5	1.5	5.0	9.5	15.5	21.5	23.5	21.0

04265437 GRASS RIVER ABOVE MASSENA, N.Y.

LOCATION.--Lat 44°55'20", long 74°55'36", St. Lawrence County, at bridge on State Highway 37, 0.4 mi (0.6 km) west of State Highway 56, 0.7 mi (1.1 km) west of Massena, and 3.0 mi (4.8 km) upstream from Massena Power Canal.

DRAINAGE AREA.--628 mi^2 (1,627 km^2).

PERIOD OF RECORD.--Chemical analyses: May to November 1970, July 1972 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 31...	1530	7.4	510	90	26	7.6	2.9	2.3	88	0
APR. 13...	1200	4.6	290	0	13	3.7	1.9	.6	38	0
MAY 10...	1115	3.8	350	30	13	4.3	2.1	.7	47	0
JUNE 06...	0935	4.2	430	20	14	4.4	1.7	.3	50	0
JULY 02...	1155	5.2	470	10	15	4.0	2.9	.7	54	0
31...	1140	5.0	350	30	11	3.7	2.5	.6	40	0
AUG. 28...	1045	5.4	380	20	9.6	3.0	2.3	.8	35	0
SEP. 25...	1325	6.8	370	30	10	3.8	2.0	.9	25	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 31...	72	20	3.9	.0	.14	.00	.47	.03	.02	114
APR. 13...	31	14	2.1	.1	.23	.01	.12	.01	.00	60
MAY 10...	39	12	1.6	.3	.14	.00	.25	.01	.00	62
JUNE 06...	41	9.7	1.7	.2	.06	.01	.42	.02	.00	61
JULY 02...	44	9.0	2.0	.2	.10	.00	.14	.03	.01	66
31...	33	10	2.0	.3	.09	.00	.11	.03	.01	55
AUG. 28...	29	10	2.0	.4	.09	.00	.04	.02	.02	51
SEP. 25...	21	20	2.1	.3	.27	.00	.26	.01	.01	59

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 31...	6	5	129	93	96	24	179	7.7	22	.0
APR. 13...	7	4	70	43	48	17	99	6.8	11	.0
MAY 10...	3	2	87	55	50	12	104	6.9	17	.0
JUNE 06...	2	0	89	57	53	12	106	7.2	22	.0
JULY 02...	2	0	86	51	54	10	114	7.4	19	.0
31...	1	0	77	45	43	10	95	7.0	20	.0
AUG. 28...	2	0	70	40	36	8	82	7.0	20	.0
SEP. 25...	3	6	87	56	41	20	96	6.8	25	.0

04265452 GRASS RIVER BELOW MASSENA CENTER, N.Y.

LOCATION.--Lat 44°57'52", long 74°47'53", St. Lawrence County, off south bank at end of road off South Grass River Road, 0.5 mi (0.8 km) west of Haverstock Road, 1.7 mi (2.7 km) east of Massena Center, 2.4 mi (3.9 km) downstream from bridge on State Highway 131, and 2.4 mi (3.9 km) upstream from mouth.

DRAINAGE AREA.--641 mi² (1,660 km²).

PERIOD OF RECORD.--Chemical analyses: April to November 1970, July 1972 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
31...	1600	7.2	360	0	24	7.5	3.7	1.9	86	0
APR.										
13...	1300	4.5	220	0	13	3.6	2.3	.6	36	0
MAY										
10...	1230	3.7	370	10	16	5.0	3.3	.8	56	0
JUNE										
06...	1145	4.1	470	20	16	5.0	3.0	.5	60	0
JULY										
02...	1330	4.6	490	30	20	5.1	4.9	.8	70	0
31...	1340	4.0	330	40	16	4.3	5.1	.8	49	0
AUG.										
28...	1130	4.7	350	30	17	4.1	6.9	1.2	53	0
SEP.										
25...	1245	7.0	350	20	11	3.6	4.0	1.0	28	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT.										
31...	71	21	5.1	.4	.19	.01	.60	.04	.02	114
APR.										
13...	30	14	2.4	.0	.23	.01	.14	.02	.00	59
MAY										
10...	46	15	2.5	.8	.15	.01	.14	.03	.01	76
JUNE										
06...	49	12	2.8	.5	.10	.02	.20	.04	.01	74
JULY										
02...	57	12	4.5	.7	.19	.11	.11	.05	.02	88
31...	40	14	6.8	1.0	.34	.00	.21	.06	.03	78
AUG.										
28...	43	15	8.9	1.5	.37	.00	.16	.05	.02	87
SEP.										
25...	23	20	3.3	.7	.40	.00	.31	.03	.02	66

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.										
31...	4	3	133	93	91	20	185	7.8	23	.0
APR.										
13...	6	4	74	50	47	18	101	6.8	12	.0
MAY										
10...	7	3	99	70	61	15	133	7.1	17	.0
JUNE										
06...	3	0	104	72	61	11	133	7.3	20	.0
JULY										
02...	3	2	106	72	71	14	161	7.6	19	.0
31...	2	0	102	64	58	17	130	6.8	23	.0
AUG.										
28...	6	2	105	70	59	16	153	7.2	16	.0
SEP.										
25...	2	0	90	56	42	19	108	6.8	29	.0

04268230 RAQUETTE RIVER AT MASSENA SPRINGS, N.Y.

LOCATION.--Lat 44°54'59", long 74°53'19", St. Lawrence County, at bridge on State Highway 420 (S. Main Street) in Massena Springs, 740 ft (226 m) downstream from staff gage and 0.4 mi (0.6 km) downstream from Hutchins Creek.

DRAINAGE AREA.--1,197 mi² (3,100 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970, July 1972 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 31...	--	5.3	540	0	13	4.6	2.0	.7	50	0
APR. 13...	1210	5.1	260	0	6.5	1.3	1.2	.3	10	0
MAY 10...	1150	4.6	140	0	7.5	1.6	1.2	.5	17	0
JUNE 06...	1030	4.5	210	30	7.0	2.0	1.2	.3	23	0
JULY 02...	1250	4.4	240	0	8.6	2.1	1.5	.4	27	0
31...	1200	4.0	190	20	5.4	1.4	1.4	.4	15	0
AUG. 28...	1200	3.8	180	20	5.3	1.3	1.4	.4	15	0
SEP. 25...	1205	4.0	330	20	5.7	2.0	2.2	.5	19	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 31...	41	12	2.2	.0	.19	.00	.32	.02	.00	65
APR. 13...	8	8.5	1.1	.3	.35	.00	.14	.00	.00	31
MAY 10...	14	8.5	.8	.2	.33	.02	.41	.01	.00	35
JUNE 06...	19	7.5	1.3	.2	.26	.01	.53	.01	.00	37
JULY 02...	22	5.7	2.3	.1	.23	.00	.30	.01	.00	40
31...	12	6.5	.8	.2	.24	.00	.13	.01	.00	29
AUG. 28...	12	7.4	1.0	.3	.18	.00	.12	.05	.01	29
SEP. 25...	16	8.0	1.4	.3	.20	.00	.10	.00	.00	34

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 31...	4	3	81	57	51	10	105	7.5	18	.0
APR. 13...	6	4	43	25	22	13	45	6.4	12	.0
MAY 10...	4	1	50	27	25	11	50	6.8	11	.0
JUNE 06...	0	0	51	29	26	7	57	7.1	14	.0
JULY 02...	2	1	53	32	30	8	68	7.2	14	.0
31...	0	0	42	26	19	7	49	6.5	15	.0
AUG. 28...	3	0	43	22	19	6	45	6.6	14	.0
SEP. 25...	2	0	44	29	22	7	60	6.7	12	.0

04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.

LOCATION.--Lat 44°53'32", long 74°41'28", St. Lawrence County, at highway bridge, 400 ft (122 m) downstream from former gaging station at Brasher Iron Works, 3.6 mi (5.8 km) upstream from mouth, and 3.8 mi (6.1 km) downstream from Lawrence Brook.

DRAINAGE AREA.--189 mi^2 (490 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 02...	1225	102	7.4	320	0	20	7.2	2.7	1.6	80
NOV. 13...	1120	387	7.3	260	0	16	5.2	1.9	1.1	56
DEC. 11...	1000	330	7.8	190	0	14	4.4	2.0	.7	49
JAN. 08...	1345	245	7.7	310	40	20	6.5	1.9	.7	70
FEB. 05...	1335	913	5.1	280	20	14	3.9	1.3	.8	44
MAR. 06...	1500	799	4.9	520	40	15	4.4	1.8	1.9	47
APR. 02...	1315	3260	3.7	1200	60	16	4.0	1.4	1.0	50
MAY 03...	0800	301	3.7	300	0	15	5.1	2.1	.6	64
JUNE 07...	0940	309	4.5	490	--	17	5.2	1.9	.7	66
JULY 10...	0840	67	4.3	390	40	17	5.3	2.6	.8	67
AUG. 08...	1315	143	6.0	390	30	16	4.8	2.4	1.2	53
SEP. 12...	1255	61	5.3	490	30	17	6.1	3.7	1.7	72

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT. 02...	0	66	16	2.7	.0	.14	.01	.59	.07	.04
NOV. 13...	0	46	14	2.0	.0	.20	.00	.49	.15	.13
DEC. 11...	0	40	10	.8	.1	.38	.06	.35	.10	.07
JAN. 08...	0	57	13	7.2	.0	.26	.00	.38	.02	.00
FEB. 05...	0	36	10	1.2	.0	.28	.00	.26	.01	.01
MAR. 06...	0	39	10	3.0	.1	1.1	.00	.29	.11	.07
APR. 02...	0	41	12	1.5	.3	.26	.00	.66	.09	.02
MAY 03...	0	52	10	2.1	.2	.21	.05	.41	.12	.10
JUNE 07...	0	54	6.2	1.6	.3	.36	.04	.37	.06	.04
JULY 10...	0	55	6.9	2.5	.1	.13	.00	.17	.09	.05
AUG. 08...	0	43	11	3.0	.1	.37	.01	.29	.07	.04
SEP. 12...	0	59	14	3.0	.4	.44	.00	.24	.30	.26

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04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	RESIDUE ON IGNI- TION (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
OCT.										
02...	98	2	0	122	92	80	14	168	7.7	11.0
NOV.										
13...	77	4	2	94	61	61	15	125	7.6	5.5
DEC.										
11...	66	3	1	86	57	53	13	113	7.2	.0
JAN.										
08...	93	8	4	104	74	70	13	146	7.6	.0
FEB.										
05...	59	13	8	72	47	51	15	94	7.0	1.0
MAR.										
06...	70	11	4	82	59	56	17	111	7.0	1.0
APR.										
02...	66	96	83	126	90	56	15	98	7.5	6.0
MAY										
03...	72	50	48	92	59	58	6	122	7.4	14.5
JUNE										
07...	72	1	0	105	61	64	10	121	7.3	21.0
JULY										
10...	73	3	3	99	66	64	9	134	7.4	24.0
AUG.										
08...	73	8	7	97	65	60	16	121	7.3	24.0
SEP.										
12...	87	2	0	142	119	68	9	157	7.6	16.0

DATE	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
02...	10.4	97	17	3200	192	.0	--	--	--	--
NOV.										
13...	10.6	88	25	B120	71	.0	10	0	0	<.5
DEC.										
11...	11.2	79	19	100	40	.0	--	--	--	--
JAN.										
08...	12.0	85	--	<1	82	--	--	--	--	--
FEB.										
05...	10.7	78	14	400	36	.0	--	--	--	--
MAR.										
06...	13.4	97	15	570	B150	.0	--	--	--	--
APR.										
02...	9.8	81	27	1400	430	.0	--	--	--	--
MAY										
03...	8.8	89	18	B1400	70	.0	--	--	--	--
JUNE										
07...	7.8	90	26	B27000	180	.0	--	--	--	--
JULY										
10...	6.6	78	19	B3800	B30	.0	--	--	--	--
AUG.										
08...	8.0	95	20	5400	360	.0	--	--	--	--
SEP.										
12...	9.0	91	21	4700	B36	.0	--	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

04279015 LA CHUTE AT STATE HIGHWAY 22 AT TICONDEROGA, N.Y.
(FORMERLY PUBLISHED AS TICONDEROGA CREEK AT TICONDEROGA, N.Y.)

LOCATION.--Lat 43°51'00", long 73°25'20", Essex County, at bridge on State Highway 22 in Ticonderoga, and 0.8 mi (1.3 km) downstream from gaging station (04279000 La Chute at Ticonderoga) which is 250 ft (76 m) upstream from Trout Brook.

DRAINAGE AREA.--234 mi^2 (606 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 26...	1245	1.7	100	0	14	3.0	3.5	.6	43	0	35
JAN. 11...	1205	1.5	30	10	14	2.6	2.8	.3	36	0	30
FEB. 06...	1115	1.7	90	30	16	2.7	2.8	.5	37	0	30
MAR. 05...	1325	2.1	270	30	14	2.8	3.5	.7	40	0	33
APR. 11...	1050	1.7	120	30	14	2.6	2.8	.4	38	0	31
MAY 30...	--	1.4	40	0	13	2.5	2.5	.4	37	0	30
JUNE 27...	0810	2.6	290	10	18	3.6	5.9	.7	62	0	51
AUG. 22...	0830	2.9	200	20	15	3.2	5.4	.6	51	0	42
SEP. 19...	0845	4.5	560	40	21	5.8	8.5	1.3	76	0	62

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 26...	13	4.0	.0	.00	.00	.33	.06	.05	61	2
JAN. 11...	13	4.0	.0	.01	.00	.07	.01	.01	56	6
FEB. 06...	14	3.4	.0	.03	.00	.16	.01	.01	60	4
MAR. 05...	13	5.5	.1	.21	.00	.29	.03	.01	62	6
APR. 11...	11	4.3	.1	.05	.00	.16	.01	.00	56	4
MAY 30...	12	3.7	.1	.03	.00	.09	.00	.00	54	3
JUNE 27...	13	5.0	.1	.03	.02	.00	.04	.02	80	5
AUG. 22...	13	5.0	.3	.27	.00	.15	.04	.03	72	1
SEP. 19...	19	7.5	.4	.33	.00	.15	.06	.02	107	5

DATE	FIXED NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)
OCT. 26...	0	72	53	47	12	113	7.3	5	.0	--
JAN. 11...	6	68	51	46	16	106	7.5	4	.0	--
FEB. 06...	2	67	58	51	21	101	7.3	2	.0	--
MAR. 05...	4	79	69	46	14	112	7.2	9	.0	--
APR. 11...	2	65	49	46	14	104	7.5	4	.0	--
MAY 30...	0	69	49	43	12	98	7.4	4	.0	0
JUNE 27...	2	93	75	60	9	142	7.3	8	.0	--
AUG. 22...	0	81	61	51	9	127	7.1	8	.0	--
SEP. 19...	5	129	94	76	14	189	7.7	13	.0	--

04294402 LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y.

LOCATION.--Lat 43°34'55", long 73°25'19", Washington County, N.Y.-Rutland County, Vt., at midchannel directly south of navigation light, 0.2 mi (0.4 km) upstream from South Bay and 2.0 mi (3.2 km) northwest of Whitehall.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DEPTH (FT)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
MAY 08...	1530	12	--	--	--	--	--	--	--	.30
JUNE 05...	1600	12	--	--	--	--	--	--	--	.39
JULY 03...	1500	12	--	--	--	--	--	--	--	.35
AUG. 08...	1645	10	3.2	990	90	87	0	71	.2	.30
SEP. 12...	1630	9.0	--	--	--	--	--	--	--	.37

DATE	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
MAY 08...	--	.34	.03	--	--	245	8.1	13.5	9
JUNE 05...	.01	1.4	.06	--	--	235	7.5	18.0	10
JULY 03...	.01	.41	.05	--	--	190	7.6	23.0	20
AUG. 08...	.03	.31	.04	120	20	230	7.5	22.0	20
SEP. 12...	.00	.20	.06	--	--	220	7.7	19.5	20

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
MAY 08...	9.1	87	.4	5400	B400	3.0	--	--	--
JUNE 05...	9.1	96	3.8	2300	400	6.0	20	--	--
JULY 03...	8.1	93	.3	62000	62300	--	--	--	--
AUG. 08...	7.7	87	4.8	B9000	B20	1.0	18	.00	.0
SEP. 12...	7.3	80	2.4	B1000	B60	3.6	--	--	--

DATE	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY 08...	--	0	--	--	1	<.5	--	--	0
JUNE 05...	--	10	--	--	2	.5	--	--	0
JULY 03...	--	0	--	--	7	1.8	--	--	30
AUG. 08...	1	0	0	10	6	.6	0	.0	20
SEP. 12...	--	<1	--	--	5	<.5	--	--	20

B Results based on colony count outside the acceptable range (non-ideal colony count).

04294402 LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOXAPHENE (UG/L)
MAY 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY 08...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 08...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)
MAY 08...	.0	0	5.7	1.3	<.1	.1	.0	.0	.0	.0
AUG. 08...	.0	0	2.4	.0	.1	.6	.0	.0	.0	.0

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
MAY 08...	0	--	--	--	--	--	--	--	140
AUG. 08...	0	.0	.0	.0	.0	.0	.0	.0	25

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 08...	<1.6	1.3	2.6	1.1	2.0	1.0

04294408 LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y.

LOCATION.--Lat 43°50'60", long 73°23'16", Essex County, N.Y.-Addison County, Vt., at midlake at New York-Vermont state line opposite mouth of Ticonderoga Creek, 0.5 mi (0.8 km) south of Fort Ticonderoga and 2.0 mi (3.2 km) southeast of Ticonderoga.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DEPTH (FT)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
MAY										
08...	1215	21	--	--	--	--	--	--	--	.08
JUNE										
05...	1230	11	--	--	--	--	--	--	--	.02
JULY										
03...	1215	12	--	--	--	--	--	--	--	.45
AUG.										
08...	1235	10	.3	460	50	87	0	71	.2	.27
SEP.										
12...	1300	12	--	--	--	--	--	--	--	.20

DATE	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
MAY									
08...	--	.32	.02	--	--	171	8.2	14.0	10
JUNE									
05...	.00	.29	.02	--	--	158	7.5	18.5	7
JULY									
03...	.01	.46	.04	--	--	215	7.5	22.5	10
AUG.									
08...	.01	.28	.03	110	10	215	7.9	24.0	10
SEP.									
12...	.03	.23	.05	--	--	217	7.8	20.0	15

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
MAY									
08...	9.2	89	4.1	820	80	2.0	--	--	--
JUNE									
05...	9.4	98	3.5	82000	230	2.0	10	--	--
JULY									
03...	8.0	91	2.5	72000	2000	2.0	18	--	--
AUG.									
08...	7.6	89	4.6	5400	880	1.0	17	.00	.0
SEP.									
12...	7.6	83	4.5	8800	810	5.3	--	--	--

DATE	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY									
08...	--	0	--	--	3	220	--	--	10
JUNE									
05...	--	0	--	--	1	.5	--	--	10
JULY									
03...	--	10	--	--	5	<.5	--	--	10
AUG.									
08...	15	0	0	10	4	.7	0	.0	20
SEP.									
12...	--	0	--	--	3	<.5	--	--	20

B Results based on colony count outside the acceptable range (non-ideal colony count).

04294408 LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
MAY											
08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG.											
08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY											
08...	.00	.00	.00	.00	.00	.00	.00	--	--	--	.0
AUG.											
08...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
MAY										
08...	.0	8	3.8	1.2	.2	.3	.0	.0	.0	.0
AUG.										
08...	.0	0	3.4	.0	.1	1.2	.0	.0	.0	.0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
MAY									
08...	0	--	--	--	--	--	--	--	20
AUG.									
08...	0	.0	.0	.0	.0	.0	.0	.0	20

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.						
08...	<1.5	.4	3.4	1.0	2.7	.9

04294410 LAKE CHAMPLAIN NEAR CROWN POINT, N.Y.

LOCATION.--Lat 43°55'25", long 73°24'20", Essex County, N.Y.-Addison County, Vt., at midlake at New York-Vermont state line, approximately 1.5 mi (2.4 km) north of Fivemile Point and 2.3 mi (3.7 km) southeast of Crown Point.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DEPTH (FT)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
MAY										
08...	1130	20	--	--	--	--	--	--	--	.10
JUNE										
05...	1130	12	--	--	--	--	--	--	--	.03
JULY										
03...	1130	11	--	--	--	--	--	--	--	.36
AUG.										
08...	1130	8.0	.3	2200	90	81	0	66	.2	.30
SEP.										
12...	1130	10	--	--	--	--	--	--	--	.32

DATE	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
MAY									
08...	--	.32	.01	--	--	179	8.1	14.0	10
JUNE									
05...	.00	.62	.03	--	--	190	7.8	18.5	9
JULY									
03...	.00	.36	.03	--	--	220	7.7	23.0	15
AUG.									
08...	.00	.30	.03	110	9	215	8.1	25.0	15
SEP.									
12...	.01	.33	.05	--	--	50	7.6	20.0	25

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
MAY									
08...	9.2	89	2.6	B50	B0	2.5	--	--	--
JUNE									
05...	9.5	98	7.2	B130	B2	28	11	--	--
JULY									
03...	8.5	98	3.7	51000	B1900	6.0	11	--	--
AUG.									
08...	7.5	89	5.9	B200	B20	2.0	16	.01	.0
SEP.									
12...	7.9	86	4.6	B700	B2	4.0	--	--	--

DATE	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY									
08...	--	10	--	--	4	<.5	--	--	10
JUNE									
05...	--	10	--	--	2	.5	--	--	10
JULY									
03...	--	0	--	--	7	<.5	--	--	10
AUG.									
08...	32	0	0	10	8	.6	3	.0	20
SEP.									
12...	--	<1	--	--	5	<.5	--	--	30

B Results based on colony count outside the acceptable range (non-ideal colony count).

04294410 LAKE CHAMPLAIN NEAR CROWN POINT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOX-APHENE (UG/L)
MAY 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
MAY 08...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
AUG. 08...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
MAY 08...	.0	0	3.5	.9	.2	.0	.0	.0	.0	.0
AUG. 08...	.0	0	3.7	.0	.4	.5	.0	.0	.0	.0

DATE	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
MAY 08...	0	--	--	--	--	--	--	--	10
AUG. 08...	0	.0	.0	.0	.0	.0	.0	.0	15

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 08...	<1.5	<.4	3.5	.8	2.8	.7

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
STREAMS ON LONG ISLAND											
01302500 - GLEN COVE CREEK AT GLEN COVE, N.Y. (LAT 40 51 48 LONG 073 38 05)											
FEB., 1973											
21...	1530	3.5	14	780	160	20	5.0	17	2.3	45	0
APR.											
30...	1100	5.2	13	1100	120	21	5.0	14	2.3	46	0
JULY											
05...	1030	15	7.0	660	30	13	3.7	9.5	3.4	32	0
SEP.											
21...	1245	4.9	6.3	1800	770	16	3.8	40	3.8	28	0
01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR, NY (LAT 40 51 25 LONG 073 27 50)											
FEB., 1973											
21...	1430	2.4	9.9	340	70	6.5	1.8	7.2	1.2	18	0
APR.											
30...	1230	4.4	5.2	770	70	5.0	1.6	6.2	.9	16	0
JULY											
03...	--	4.4	6.2	360	40	4.3	1.6	6.3	.8	14	0
SEP.											
21...	1400	3.2	5.4	2600	140	4.5	1.8	6.5	.0	17	0
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN, N. Y. (LAT 40 50 58 LONG 073 13 29)											
FEB., 1973											
21...	1430	49	6.9	170	70	6.0	1.9	7.3	.8	13	0
APR.											
30...	1345	58	6.5	440	100	4.6	1.8	7.1	.9	13	0
JULY											
03...	1230	54	7.2	350	70	5.0	1.6	7.1	.8	15	0
SEP.											
24...	1200	45	6.1	--	--	5.5	2.2	9.7	1.3	16	0
01304500 - PECONIC RIVER AT RIVERHEAD, N. Y. (LAT 40 59 49 LONG 072 41 14)											
FEB., 1973											
21...	1015	68	4.8	260	70	6.5	1.7	6.0	1.1	9	0
MAY											
04...	1130	79	3.9	1000	100	5.0	1.7	5.7	1.3	12	0
JUNE											
27...	1145	63	8.0	2300	170	6.3	1.9	6.4	1.7	16	0
SEP.											
17...	0900	41	6.3	2500	280	6.5	2.3	5.9	1.5	17	0
01304530 - LITTLE RIVER NEAR RIVERHEAD NY (LAT 40 53 52 LONG 072 40 30)											
MAR., 1973											
13...	1045	6.9	5.0	120	0	5.0	1.6	8.0	.5	16	0
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)											
MAR., 1973											
12...	1315	2.8	4.6	170	150	5.0	2.0	12	1.1	9	0
SEP.											
12...	1220	.63	5.2	2300	580	5.0	2.7	14	1.3	9	0
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)											
MAR., 1973											
12...	1145	1.2	8.3	50	0	3.9	1.4	6.6	.4	10	0
SEP.											
12...	1300	.95	8.2	2500	110	2.7	1.7	6.7	.4	9	0
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)											
MAR., 1973											
12...	1130	1.9	3.3	600	10	2.9	1.4	7.1	.6	9	0
SEP.											
12...	1050	.08	8.4	4300	450	5.0	2.0	10	1.4	11	0
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)											
MAR., 1973											
15...	1100	3.6	8.5	430	70	21	4.8	12	3.4	13	0
SEP.											
12...	1000	--	9.3	5400	610	20	5.7	13	3.6	10	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
STREAMS ON LONG ISLAND										
01302500 - GLEN COVE CREEK AT GLEN COVE, N.Y. (LAT 40 51 48 LONG 073 38 05)										
FEB., 1973										
21...	37	31	22	.1	4.0	.39	.05	.57	.07	152
APR.										
30...	38	27	19	.3	3.2	.01	.11	.56	--	139
JULY										
05...	26	24	10	.4	2.6	.01	.12	1.2	.68	99
SEP.										
21...	23	28	58	.3	3.4	.02	.38	.01	.20	185
01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR, NY (LAT 40 51 25 LONG 073 27 50)										
FEB., 1973										
21...	15	8.7	9.8	.0	1.6	.07	.05	.34	.03	61
APR.										
30...	13	4.8	8.5	.2	.49	.10	.15	.59	--	43
JULY										
03...	11	5.6	9.5	.2	.82	.00	.05	.81	.03	45
SEP.										
21...	14	3.9	10	.6	.26	.00	.07	.16	.02	42
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN, N. Y. (LAT 40 50 58 LONG 073 13 29)										
FEB., 1973										
21...	11	7.0	11	.0	1.6	.03	.07	.28	.03	54
APR.										
30...	11	7.8	11	.3	1.2	.01	.10	.41	--	51
JULY										
03...	12	5.6	11	.3	.92	.00	.05	.47	.08	50
SEP.										
24...	13	8.0	14	.3	1.2	.01	.04	.15	.00	60
01304500 - PECONIC RIVER AT RIVERHEAD, N. Y. (LAT 40 59 49 LONG 072 41 14)										
FEB., 1973										
21...	7	13	9.6	.0	.30	.01	.12	.20	.04	49
MAY										
04...	10	13	9.2	.4	.49	.00	.20	.48	.12	50
JUNE										
27...	13	11	12	.3	.60	.00	.15	.55	.17	58
SEP.										
17...	14	13	10	.3	.43	.00	.05	.30	.11	56
01304530 - LITTLE RIVER NEAR RIVERHEAD NY (LAT 40 53 52 LONG 072 40 30)										
MAR., 1973										
13...	13	6.5	12	.4	.30	.02	.03	.30	.01	48
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)										
MAR., 1973										
12...	7	11	19	.0	.50	.00	.05	--	.02	61
SEP.										
12...	7	11	23	.0	.20	.00	.07	--	.02	68
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)										
MAR., 1973										
12...	8	7.5	11	.0	.06	.01	.05	.08	.00	44
SEP.										
12...	7	5.9	9.5	.1	.01	.00	.04	.05	.01	40
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)										
MAR., 1973										
12...	7	6.2	12	.0	.10	.00	.09	--	.05	38
SEP.										
12...	9	8.2	14	.1	.09	.00	.26	--	.00	55
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)										
MAR., 1973										
15...	11	46	23	.0	3.1	.00	.02	.24	.01	139
SEP.										
12...	13	42	22	.1	3.7	.02	.10	.12	.02	140

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

STREAMS ON LONG ISLAND--Continued

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
01302500 - GLEN COVE CREEK AT GLEN COVE, N.Y. (LAT 40 51 48 LONG 073 38 05)										
FEB., 1973 21...	74	37	273	7.3	10.0	.0	--	--	--	--
APR. 30...	76	39	230	7.2	13.0	.0	0	0	5	1.6
JULY 05...	48	21	159	6.7	19.0	.0	--	--	--	--
SEP. 21...	56	33	220	6.6	14.0	.0	--	--	--	--
01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR, NY (LAT 40 51 25 LONG 073 27 50)										
FEB., 1973 21...	24	9	89	6.8	4.0	.0	--	--	--	--
APR. 30...	19	6	75	6.7	15.0	.0	0	0	5	--
JULY 03...	17	6	76	6.2	25.0	.0	--	--	--	--
SEP. 21...	19	5	80	6.7	17.0	.0	--	--	--	--
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN, N. Y. (LAT 40 50 58 LONG 073 13 29)										
FEB., 1973 21...	23	12	110	6.8	6.0	.0	--	--	--	--
APR. 30...	19	8	100	6.2	15.5	.0	0	0	8	1.2
JULY 03...	19	7	89	6.4	22.0	.0	--	--	--	--
SEP. 24...	23	10	120	6.7	15.0	.0	--	--	--	--
01304500 - PECONIC RIVER AT RIVERHEAD, N. Y. (LAT 40 59 49 LONG 072 41 14)										
FEB., 1973 21...	23	16	95	6.7	5.0	.1	--	--	--	--
MAY 04...	21	12	90	6.6	16.0	.0	10	0	2	<.5
JUNE 27...	24	10	75	6.8	21.0	.0	--	--	--	--
SEP. 17...	26	12	100	6.5	18.0	.0	--	--	--	--
01304530 - LITTLE RIVER NEAR RIVERHEAD NY (LAT 40 53 52 LONG 072 40 30)										
MAR., 1973 13...	19	6	80	6.7	9.0	.0	--	--	--	--
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)										
MAR., 1973 12...	21	13	106	6.6	--	.0	--	--	--	--
SEP. 12...	24	16	123	7.8	--	.0	--	--	--	--
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)										
MAR., 1973 12...	16	7	65	6.7	11.0	.0	--	--	--	--
SEP. 12...	14	6	64	7.1	--	.0	--	--	--	--
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)										
MAR., 1973 12...	13	6	68	6.4	--	.0	--	--	--	--
SEP. 12...	21	12	96	6.9	--	.0	--	--	--	--
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)										
MAR., 1973 15...	72	62	230	6.5	9.0	.0	--	--	--	--
SEP. 12...	73	60	233	7.4	--	.0	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS ON LONG ISLAND--Continued											
01304745 - WEESUCK CREEK AT EAST QUOGUE NY (LAT 40 50 52 LONG 072 34 42)											
MAR., 1973 14...	0930	1.4	8.3	90	40	3.9	2.6	19	1.0	8	0
01304760 - QUANTUCK CREEK AT QUOGUE NY (LAT 40 49 57 LONG 072 37 06)											
MAR., 1973 14...	1000	3.7	5.1	230	30	3.2	1.5	4.9	.4	6	0
01304779 - ASPATUCK CREEK NEAR WESTHAMPTON NY (LAT 40 49 14 LONG 072 38 14)											
MAR., 1973 14...	1015	2.5	9.3	140	300	7.0	3.3	9.3	1.1	20	0
01304800 - BEAVERDAM CREEK AT WEST HAMPTON NY (LAT 40 49 23 LONG 072 39 42)											
MAR., 1973 14...	1045	3.7	5.1	330	70	2.9	1.8	6.1	.6	8	0
01304820 - SPEONK RIVER AT SPEONK NY (LAT 40 49 06 LONG 072 41 29)											
MAR., 1973 14...	1100	1.3	5.9	100	40	2.5	1.3	5.7	.6	6	0
01304830 - EAST RIVER AT EASTPORT NY (LAT 40 49 24 LONG 072 43 02)											
MAR., 1973 13...	1115	1.2	6.5	230	200	4.0	1.5	5.4	1.2	7	0
01304860 - SEATUCK CREEK AT EASTPORT NY (LAT 40 49 30 LONG 072 43 43)											
MAR., 1973 13...	1145	6.1	6.3	110	20	5.5	2.3	5.0	.6	14	0
01304900 - LITTLE SEATUCK CREEK AT EASTPORT NY (LAT 40 49 12 LONG 072 44 23)											
MAR., 1973 13...	1200	4.8	9.4	120	60	11	3.5	8.8	1.3	18	0
01305500 - SWAN RIVER AT EAST PATCHOGUE, N. Y. (LAT 40 46 01 LONG 072 59 39)											
FEB., 1973 21...	1130	16	7.1	450	20	5.0	1.6	6.2	.7	16	0
MAY 03...	1015	16	9.2	310	70	5.9	1.7	6.6	1.0	17	0
JULY 06...	--	16	7.5	240	70	5.1	1.7	6.3	1.0	15	0
SEP. 17...	1230	12	8.7	2600	320	5.2	1.8	6.0	.9	15	0
01306000 - PATCHOGUE CREEK AT PATCHOGUE, N. Y. (LAT 40 45 56 LONG 073 01 16)											
FEB., 1973 21...	1145	22	9.4	450	180	7.0	2.2	8.6	1.3	17	0
MAY 03...	1000	28	8.8	940	200	6.8	2.2	23	1.3	52	0
JULY 06...	--	31	6.8	410	110	6.7	2.2	8.8	1.2	19	0
SEP. 17...	1315	19	6.2	2200	110	5.9	2.2	8.2	1.2	18	0
01306300 - WEST BRANCH BROWN CREEK AT BOHEMIA NY (LAT 40 44 33 LONG 073 04 33)											
JULY, 1973 02...	1250	--	1.9	100	80	7.5	1.9	8.7	2.0	11	0
01306400 - GREEN CREEK AT WEST SAYVILLE NY (LAT 40 43 51 LONG 073 05 32)											
DEC., 1972 15...	1030	--	11	--	300	8.8	2.7	8.3	1.6	18	0
MAY , 1973 30...	1315	--	10	340	110	9.1	2.8	8.2	1.9	17	0
JUNE 29...	1155	--	11	580	120	8.3	2.3	7.8	1.7	18	0

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
STREAMS ON LONG ISLAND--Continued										
01304745 - WEESUCK CREEK AT EAST QUOGUE NY (LAT 40 50 52 LONG 072 34 42)										
MAR., 1973 14...	7	9.0	30	.0	.30	.00	.05	.13	.00	79
01304760 - QUANTUCK CREEK AT QUOGUE NY (LAT 40 49 57 LONG 072 37 06)										
MAR., 1973 14...	5	7.5	7.6	.0	.40	.00	.03	.14	.01	35
01304779 - ASPATUCK CREEK NEAR WESTHAMPTON NY (LAT 40 49 14 LONG 072 38 14)										
MAR., 1973 14...	16	13	14	.1	1.1	.00	.27	.15	.00	72
01304800 - BEAVERDAM CREEK AT WEST HAMPTON NY (LAT 40 49 23 LONG 072 39 42)										
MAR., 1973 14...	7	7.5	9.5	.0	--	.00	.05	.26	.00	38
01304820 - SPEONK RIVER AT SPEONK NY (LAT 40 49 06 LONG 072 41 29)										
MAR., 1973 14...	5	7.7	9.6	.1	.20	.00	.05	.31	.00	37
01304830 - EAST RIVER AT EASTPORT NY (LAT 40 49 24 LONG 072 43 02)										
MAR., 1973 13...	6	8.7	11	.2	1.1	.04	.26	.24	.00	47
01304860 - SEATUCK CREEK AT EASTPORT NY (LAT 40 49 30 LONG 072 43 43)										
MAR., 1973 13...	11	8.7	9.3	.1	.80	.00	.03	.19	.00	48
01304900 - LITTLE SEATUCK CREEK AT EASTPORT NY (LAT 40 49 12 LONG 072 44 23)										
MAR., 1973 13...	15	18	17	.1	1.7	.00	.05	1.0	.01	86
01305500 - SWAN RIVER AT EAST PATCHOGUE, N. Y. (LAT 40 46 01 LONG 072 59 39)										
FEB., 1973 21...	13	5.7	9.5	.2	.60	.01	.15	.29	.03	47
MAY 03...	14	8.9	8.6	.3	1.2	.00	.08	.25	.02	56
JULY 06...	12	7.7	8.8	.1	1.2	.00	.08	.46	.03	51
SEP. 17...	12	7.2	9.0	.2	1.1	.00	.00	.14	.01	51
01306000 - PATCHOGUE CREEK AT PATCHOGUE, N. Y. (LAT 40 45 56 LONG 073 01 16)										
FEB., 1973 21...	14	11	12	.1	1.6	.03	.11	.47	.02	67
MAY 03...	43	12	12	.5	1.3	.00	.07	.54	.07	98
JULY 06...	16	9.5	12	.2	1.2	.00	.05	.41	.02	62
SEP. 17...	15	10	12	.2	1.1	.00	.01	--	.01	60
01306300 - WEST BRANCH BROWN CREEK AT BOHEMIA NY (LAT 40 44 33 LONG 073 04 33)										
JULY, 1973 02...	9	12	12	.3	1.4	.01	.07	--	.01	58
01306400 - GREEN CREEK AT WEST SAYVILLE NY (LAT 40 43 51 LONG 073 05 32)										
DEC., 1972 15...	15	12	10	.0	2.2	.00	.03	1.0	.01	73
MAY , 1973 30...	14	17	12	.3	2.1	.03	.15	.17	.00	79
JUNE 29...	15	13	11	.2	1.8	.00	.25	.28	.01	72

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND--Continued										
01304745 - WEESUCK CREEK AT EAST QUOGUE NY (LAT 40 50 52 LONG 072 34 42)										
MAR., 1973 14...	20	14	141	6.5	9.0	.0	--	--	--	--
01304760 - QUANTUCK CREEK AT QUOGUE NY (LAT 40 49 57 LONG 072 37 06)										
MAR., 1973 14...	14	9	54	6.5	10.0	.0	--	--	--	--
01304779 - ASPATUCK CREEK NEAR WESTHAMPTON NY (LAT 40 49 14 LONG 072 38 14)										
MAR., 1973 14...	31	15	113	6.5	9.0	.0	--	--	--	--
01304800 - BEAVERDAM CREEK AT WEST HAMPTON NY (LAT 40 49 23 LONG 072 39 42)										
MAR., 1973 14...	15	8	66	6.7	9.0	.0	--	--	--	--
01304820 - SPEONK RIVER AT SPEONK NY (LAT 40 49 06 LONG 072 41 29)										
MAR., 1973 14...	12	7	57	6.5	10.0	.0	--	--	--	--
01304830 - EAST RIVER AT EASTPORT NY (LAT 40 49 24 LONG 072 43 02)										
MAR., 1973 13...	16	10	67	6.3	10.0	.0	--	--	--	--
01304860 - SEATUCK CREEK AT EASTPORT NY (LAT 40 49 30 LONG 072 43 43)										
MAR., 1973 13...	23	12	74	7.0	9.5	.0	--	--	--	--
01304900 - LITTLE SEATUCK CREEK AT EASTPORT NY (LAT 40 49 12 LONG 072 44 23)										
MAR., 1973 13...	42	27	139	6.7	10.0	.0	--	--	--	--
01305500 - SWAN RIVER AT EAST PATCHOGUE, N. Y. (LAT 40 46 01 LONG 072 59 39)										
FEB., 1973 21...	19	6	120	7.1	8.0	.1	--	--	--	--
MAY 03...	22	8	90	7.0	14.0	.0	0	0	2	.6
JULY 06...	20	7	82	6.4	19.0	.0	--	--	--	--
SEP. 17...	20	8	95	7.5	16.0	.0	--	--	--	--
01306000 - PATCHOGUE CREEK AT PATCHOGUE, N. Y. (LAT 40 45 56 LONG 073 01 16)										
FEB., 1973 21...	27	13	110	6.8	5.0	2.0	--	--	--	--
MAY 03...	26	0	130	7.8	16.0	.0	0	0	5	1.2
JULY 06...	26	10	112	6.6	23.0	.0	--	--	--	--
SEP. 17...	24	9	115	6.3	19.0	.0	--	--	--	--
01306300 - WEST BRANCH BROWN CREEK AT BOHEMIA NY (LAT 40 44 33 LONG 073 04 33)										
JULY, 1973 02...	27	18	102	6.5	--	.0	--	--	--	--
01306400 - GREEN CREEK AT WEST SAYVILLE NY (LAT 40 43 51 LONG 073 05 32)										
DEC., 1972 15...	33	18	116	7.0	--	.0	--	--	--	--
MAY , 1973 30...	34	20	123	6.7	--	.0	--	--	--	--
JUNE 29...	30	15	112	6.5	--	.0	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS ON LONG ISLAND--Continued											
01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA, N.Y. (LAT 40 49 57 LONG 073 07 34)											
SEP., 1973											
20...	1000	.03	11	--	--	6.5	2.4	11	2.2	19	0
01306415 - LAKE RONKONKOMA AT RONKONKOMA NY (LAT 40 49 21 LONG 073 07 10)											
JULY, 1973											
06...	--	--	.8	710	70	6.4	2.0	8.3	1.6	19	0
01306440 - CONNETQUOT BROOK AT CENTRAL ISLIP NY (LAT 40 47 33 LONG 073 09 58)											
SEP., 1973											
13...	1305	--	11	880	280	4.0	2.5	6.3	.7	18	0
01306460 - CONNETQUOT BROOK NEAR CENTRAL ISLIP NY (LAT 40 46 18 LONG 073 09 31)											
AUG., 1973											
09...	1245	--	11	250	40	5.8	2.3	6.4	.9	18	0
01306470 - CONNETQUOT BROOK NEAR OAKDALE NY (LAT 40 45 47 LONG 073 09 10)											
SEP., 1973											
13...	1145	--	11	2200	230	4.4	2.7	6.3	.8	18	0
01306495 - CONNETQUOT RIVER NEAR OAKDALE, N. Y. (LAT 40 45 00 LONG 073 08 52)											
FEB., 1973											
22...	1100	14	9.9	140	40	5.1	2.1	5.4	.7	16	0
MAY											
01...	1300	16	8.7	180	10	6.0	2.1	5.8	.8	15	0
JULY											
11...	1330	22	10	250	40	4.4	2.2	5.6	.7	16	0
AUG.											
09...	1230	17	9.2	300	40	4.6	2.2	5.5	.7	18	0
SEP.											
20...	1215	15	10	2000	230	4.2	2.3	5.2	.7	17	0
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)											
FEB., 1973											
27...	--	35	10	240	30	5.5	2.2	5.4	.7	16	0
MAY											
03...	0945	40	8.4	190	10	4.8	2.1	5.6	.6	14	0
JULY											
11...	1245	30	8.8	270	60	4.3	2.2	5.7	.7	16	0
AUG.											
09...	1150	26	8.4	250	20	4.8	2.3	5.5	.8	18	0
SEP.											
13...	1120	25	9.3	810	90	4.0	2.6	5.8	.7	19	0
20...	1130	26	9.9	1200	190	4.5	2.5	6.5	.9	17	0
01307000 - CHAMPLIN CREEK AT ISLIP, N. Y. (LAT 40 44 13 LONG 073 12 08)											
FEB., 1973											
22...	1130	--	10	720	600	11	2.5	22	2.1	15	0
MAY											
01...	1330	--	10	290	360	9.0	2.5	12	1.9	13	0
JULY											
02...	--	--	11	410	460	9.4	2.7	12	2.0	15	0
AUG.											
09...	1430	6.7	12	440	170	7.7	2.5	10	1.8	12	0
SEP.											
13...	1055	--	12	790	680	8.0	2.9	12	1.9	14	0
20...	1245	5.1	11	370	560	8.5	2.3	12	2.0	15	0
01307200 - OROWOC CREEK AT ISLIP NY (LAT 40 44 00 LONG 073 13 32)											
DEC., 1972											
15...	1100	--	11	490	500	7.8	2.6	13	2.0	9	0
MAY , 1973											
30...	1230	--	9.3	540	380	8.2	2.7	13	2.2	11	0
JUNE											
29...	1130	--	10	220	310	6.8	2.0	9.8	1.7	10	0
SEP.											
13...	1025	--	11	2700	780	6.9	3.2	13	2.2	10	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
STREAMS ON LONG ISLAND—Continued										
01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA, N.Y. (LAT 40 49 57 LONG 073 07 34)										
SEP., 1973										
20...	16	13	18	.3	.49	.01	.81	--	.05	77
01306415 - LAKE RONKONKOMA AT RONKONKOMA NY (LAT 40 49 21 LONG 073 07 10)										
JULY, 1973										
06...	16	14	13	.2	.01	.00	.92	.68	.11	57
01306440 - CONNETQUOT BROOK AT CENTRAL ISLIP NY (LAT 40 47 33 LONG 073 09 58)										
SEP., 1973										
13...	15	5.2	8.7	.4	.64	.00	.06	--	.02	51
01306460 - CONNETQUOT BROOK NEAR CENTRAL ISLIP NY (LAT 40 46 18 LONG 073 09 31)										
AUG., 1973										
09...	15	5.9	9.1	.4	1.3	.00	.07	--	.01	57
01306470 - CONNETQUOT BROOK NEAR OAKDALE NY (LAT 40 45 47 LONG 073 09 10)										
SEP., 1973										
13...	15	6.1	7.5	.3	1.3	.01	.08	--	.01	54
01306495 - CONNETQUOT RIVER NEAR OAKDALE, N. Y. (LAT 40 45 00 LONG 073 08 52)										
FEB., 1973										
22...	13	7.0	7.5	.0	1.1	.01	.05	.12	.02	51
MAY										
01...	12	7.5	8.0	.3	.99	.00	.07	.01	.02	51
JULY										
11...	13	6.0	7.8	.2	.82	.00	.08	.28	.02	49
AUG.										
09...	15	6.0	7.5	.4	.76	.01	.05	.07	.01	48
SEP.										
20...	14	5.9	7.0	.5	.93	.00	.02	.09	.01	48
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)										
FEB., 1973										
27...	13	6.5	6.0	.0	1.1	.01	.06	.20	.02	51
MAY										
03...	11	6.5	7.5	.3	.99	.00	.10	.16	.03	47
JULY										
11...	13	6.2	8.8	.2	.90	.00	.10	.19	.02	49
AUG.										
09...	15	5.5	8.0	.3	.77	.00	.06	.07	.02	48
SEP.										
13...	16	5.2	7.0	.4	.82	.00	.07	.04	.02	48
20...	14	6.2	9.4	.3	.85	.01	.06	.12	.02	52
01307000 - CHAMPLIN CREEK AT ISLIP, N. Y. (LAT 40 44 13 LONG 073 12 08)										
FEB., 1973										
22...	12	21	32	.0	2.2	.25	.45	.60	.04	118
MAY										
01...	11	19	15	.3	2.4	.00	.05	.73	.04	87
JULY										
02...	12	17	16	.3	2.3	.00	.02	.88	.05	88
AUG.										
09...	10	14	13	.4	2.3	.01	.19	.05	.08	78
SEP.										
13...	11	18	15	.5	1.7	.03	.79	.00	.04	86
20...	12	18	16	.3	1.8	.02	.82	.00	.09	87
01307200 - OROWOC CREEK AT ISLIP NY (LAT 40 44 00 LONG 073 13 32)										
DEC., 1972										
15...	7	15	17	.0	3.2	.01	.10	.47	.01	87
MAY , 1973										
30...	9	19	16	.3	3.4	.17	.05	1.1	.01	91
JUNE										
29...	8	13	13	.2	2.1	.30	.13	.63	.02	71
SEP.										
13...	8	17	16	.4	2.7	.03	.73	.00	.01	87

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND--Continued										
01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA, N.Y. (LAT 40 49 57 LONG 073 07 34)										
SEP., 1973 20...	26	11	140	5.1	16.0	.1	--	--	--	--
01306415 - LAKE RONKONKOMA AT RONKONKOMA NY (LAT 40 49 21 LONG 073 07 10)										
JULY, 1973 06...	24	9	102	6.3	25.0	.0	--	--	--	--
01306440 - CONNETQUOT BROOK AT CENTRAL ISLIP NY (LAT 40 47 33 LONG 073 09 58)										
SEP., 1973 13...	23	8	77	6.7	--	.0	--	--	--	--
01306460 - CONNETQUOT BROOK NEAR CENTRAL ISLIP NY (LAT 40 46 18 LONG 073 09 31)										
AUG., 1973 09...	24	9	122	4.2	17.0	.0	0	10	2	1.2
01306470 - CONNETQUOT BROOK NEAR OAKDALE NY (LAT 40 45 47 LONG 073 09 10)										
SEP., 1973 13...	21	6	82	6.8	12.0	.0	--	--	--	--
01306495 - CONNETQUOT RIVER NEAR OAKDALE, N. Y. (LAT 40 45 00 LONG 073 08 52)										
FEB., 1973 22...	21	8	75	7.1	6.5	.2	--	--	--	--
MAY 01...	24	11	74	6.7	15.0	.0	--	--	--	--
JULY 11...	20	7	65	5.4	19.0	.0	--	--	--	--
AUG. 09...	21	6	80	5.3	22.0	.0	0	10	2	3.6
SEP. 20...	20	6	85	6.3	15.0	.0	--	--	--	--
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)										
FEB., 1973 27...	23	10	75	6.5	5.0	.0	--	--	--	--
MAY 03...	21	9	72	6.9	14.5	.0	--	--	--	--
JULY 11...	20	7	74	6.7	20.0	.0	--	--	--	--
AUG. 09...	21	7	85	5.3	22.0	.0	0	10	2	2.8
SEP. 13...	18	2	75	6.8	17.0	.0	--	--	--	--
20...	22	8	100	6.3	15.0	.0	--	--	--	--
01307000 - CHAMPLIN CREEK AT ISLIP, N. Y. (LAT 40 44 13 LONG 073 12 08)										
FEB., 1973 22...	38	25	240	6.3	9.0	.0	--	--	--	--
MAY 01...	33	22	144	6.6	15.5	.0	--	--	--	--
JULY 02...	35	22	75	6.2	15.0	.0	--	--	--	--
AUG. 09...	30	20	124	6.4	19.0	.0	--	--	--	--
SEP. 13...	28	17	141	6.2	16.0	.0	--	--	--	--
20...	31	18	160	5.5	16.0	.0	--	--	--	--
01307200 - OROWOC CREEK AT ISLIP NY (LAT 40 44 00 LONG 073 13 32)										
DEC., 1972 15...	30	23	139	6.4	--	.1	--	--	--	--
MAY , 1973 30...	32	23	144	6.0	--	.1	--	--	--	--
JUNE 29...	25	17	113	6.1	--	.0	--	--	--	--
SEP. 13...	26	18	144	6.0	14.0	.0	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS ON LONG ISLAND--Continued											
01307290 - PARDEES PONDS TRIBUTARY AT ISLIP NY (LAT 40 45 05 LONG 073 13 05)											
DEC., 1972 15...	1115	--	9.4	540	300	8.2	2.1	11	2.0	9	0
MAY , 1973 30...	1245	--	9.7	330	2500	7.5	2.0	9.8	1.8	10	0
JUNE 29...	1120	--	10	500	460	8.1	2.4	12	2.2	10	0
SEP. 13...	1035	--	8.6	2700	790	5.5	2.2	10	1.9	12	0
01307400 - AWIXA CREEK AT ISLIP NY (LAT 40 43 39 LONG 073 13 51)											
AUG., 1973 10...	0830	--	11	4500	2200	49	8.7	28	9.0	86	0
SEP. 13...	1010	--	11	3800	1500	23	5.1	19	5.7	44	0
01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)											
FEB., 1973 22...	1200	8.9	9.0	640	750	20	3.3	100	3.3	18	0
MAY 01...	1030	9.4	9.6	30	0	15	3.2	30	2.6	19	0
JULY 02...	--	7.6	9.6	360	490	15	3.3	29	2.8	21	0
AUG. 10...	0900	6.2	10	600	840	15	3.5	35	2.9	18	0
SEP. 13...	0915	6.2	10	1700	950	16	3.1	32	3.5	17	0
01307600 - CASCADE LAKES OUTLET AT BRIGHTWATERS NY (LAT 40 42 40 LONG 073 15 38)											
FEB., 1973 22...	1300	--	7.4	650	1000	11	3.2	15	2.9	28	0
AUG. 10...	0930	--	6.2	2400	2600	11	3.2	15	3.0	21	0
01307695 - TRUES CREEK NEAR WEST ISLIP NY (LAT 40 41 52 LONG 073 16 56)											
AUG., 1973 10...	1000	--	8.5	4500	3400	8.2	2.0	12	2.7	14	0
01307760 - WILLETTS CREEK NEAR WEST ISLIP NY (LAT 40 42 34 LONG 073 17 52)											
MAY , 1973 30...	1200	--	7.4	2100	2400	14	3.2	19	4.8	12	0
JUNE 29...	1050	--	8.7	2000	1700	13	3.2	18	4.6	10	0
01307900 - SKOOKWAMS CREEK AT WEST ISLIP NY (LAT 40 44 31 LONG 073 18 32)											
DEC., 1972 18...	1500	--	8.4	670	2100	20	3.2	21	3.5	51	0
MAY , 1973 30...	1130	--	9.7	220	1500	16	4.1	28	4.2	39	0
01307920 - SAMPAWAMS C(BAY SHORE RD)NR N BABYLON NY (LAT 40 44 27 LONG 073 18 24)											
DEC., 1972 05...	1010	--	9.2	310	140	8.5	2.5	9.6	2.1	10	0
JULY, 1973 02...	1130	--	6.6	450	90	6.3	2.2	8.4	1.9	7	0
AUG. 10...	1130	--	7.9	460	80	6.4	2.4	8.9	1.9	9	0
SEP. 13...	1030	--	7.3	900	120	7.0	2.9	9.0	2.0	5	0
01307970 - SAMPAWAMS CREEK AT NORTH BABYLON NY (LAT 40 43 05 LONG 073 18 51)											
AUG., 1973 10...	1030	2.2	7.8	600	590	11	3.0	14	4.9	17	0

CONTINUED NEXT PAGE

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
STREAMS ON LONG ISLAND--Continued										
01307290 - PARDEES PONDS TRIBUTARY AT ISLIP NY (LAT 40 45 05 LONG 073 13 05)										
DEC., 1972 15...	7	16	13	.2	2.2	.00	.05	.97	.06	76
MAY , 1973 30...	6	16	12	.3	1.7	.10	.65	.19	.02	72
JUNE 29...	8	17	16	.2	3.3	.00	.13	.05	.01	88
SEP. 13...	10	13	12	.4	1.5	.04	.43	.04	.02	67
01307400 - AWIXA CREEK AT ISLIP NY (LAT 40 43 39 LONG 073 13 51)										
AUG., 1973 10...	71	84	51	.5	.10	.01	4.4	--	.30	290
SEP. 13...	36	34	33	.4	.22	.02	4.0	--	.23	159
01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)										
FEB., 1973 22...	15	26	170	.0	4.6	.67	.20	.77	.04	360
MAY 01...	16	20	46	.3	3.7	.01	.08	.74	.02	152
JULY 02...	17	19	47	.2	3.6	.00	.04	.61	.02	152
AUG. 10...	15	19	53	.5	3.7	.06	.43	.10	.02	165
SEP. 13...	14	20	52	.2	3.5	.04	.47	.07	.03	161
01307600 - CASCADE LAKES OUTLET AT BRIGHTWATERS NY (LAT 40 42 40 LONG 073 15 30)										
FEB., 1973 22...	23	27	18	.1	2.2	.03	1.9	1.0	.02	111
AUG. 10...	17	30	18	.4	.82	.02	.45	.85	.07	102
01307695 - THUES CREEK NEAR WEST ISLIP NY (LAT 40 41 52 LONG 073 16 56)										
AUG., 1973 10...	11	16	16	.4	.40	.03	1.9	--	.03	77
01307760 - WILLETTS CREEK NEAR WEST ISLIP NY (LAT 40 42 34 LONG 073 17 52)										
MAY , 1973 30...	10	19	23	.2	4.9	.06	.30	.75	.07	119
JUNE 29...	8	29	21	.3	5.5	2.5	.42	1.8	.13	128
01307900 - SKOOKWAMS CREEK AT WEST ISLIP NY (LAT 40 44 31 LONG 073 18 32)										
DEC., 1972 18...	42	25	25	.6	3.0	1.8	1.2	.35	.01	147
MAY , 1973 30...	32	37	39	.3	3.2	.02	3.6	.23	.01	176
01307920 - SAMPAWAMS C(BAY SHORE RD)NR N BABYLON NY (LAT 40 44 27 LONG 073 18 24)										
DEC., 1972 05...	8	19	12	.0	3.0	.00	.22	.56	.01	81
JULY, 1973 02...	6	15	11	.3	2.5	.00	.16	.36	.01	66
AUG. 10...	7	15	11	.4	2.6	.01	.15	.28	.01	70
SEP. 13...	4	14	13	.2	2.9	.01	.20	.17	.01	71
01307970 - SAMPAWAMS CREEK AT NORTH BABYLON NY (LAT 40 43 05 LONG 073 18 51)										
AUG., 1973 10...	14	21	19	.6	3.2	.00	.99	--	.02	105

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND--Continued										
01307290 - PARDEES PONDS TRIBUTARY AT ISLIP NY (LAT 40 45 05 LONG 073 13 05)										
DEC., 1972 15...	29	22	123	7.0	--	.0	--	--	--	--
MAY , 1973 30...	27	19	116	5.9	--	.1	--	--	--	--
JUNE 29...	30	22	143	6.1	--	.0	--	--	--	--
SEP. 13...	23	13	111	6.7	15.0	.0	--	--	--	--
01307400 - AWIXA CREEK AT ISLIP NY (LAT 40 43 39 LONG 073 13 51)										
AUG., 1973 10...	160	88	550	5.7	18.0	.0	0	20	4	--
SEP. 13...	75	39	294	6.3	16.0	.0	--	--	--	--
01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)										
FEB., 1973 22...	64	49	750	6.5	9.0	.1	--	--	--	--
MAY 01...	51	35	272	6.7	13.5	.1	--	--	--	--
JULY 02...	51	34	280	6.5	16.0	.0	--	--	--	--
AUG. 10...	52	37	300	4.7	18.0	.0	0	10	11	2.0
SEP. 13...	53	39	270	5.2	14.0	.0	--	--	--	--
01307600 - CASCADE LAKES OUTLET AT BRIGHTWATERS NY (LAT 40 42 40 LONG 073 15 38)										
FEB., 1973 22...	41	18	250	6.8	9.0	.0	--	--	--	--
AUG. 10...	41	23	195	6.6	26.0	.0	0	30	38	1.7
01307695 - TRUES CREEK NEAR WEST ISLIP NY (LAT 40 41 52 LONG 073 16 56)										
AUG., 1973 10...	29	17	160	5.1	22.0	.1	0	10	110	1.2
01307760 - WILLETTS CREEK NEAR WEST ISLIP NY (LAT 40 42 34 LONG 073 17 52)										
MAY , 1973 30...	48	38	226	6.1	--	.2	--	--	--	--
JUNE 29...	46	37	216	5.8	--	.2	--	--	--	--
01307900 - SKOOKWAMS CREEK AT WEST ISLIP NY (LAT 40 44 31 LONG 073 18 32)										
DEC., 1972 18...	63	21	245	6.8	--	.1	--	--	--	--
MAY , 1973 30...	57	25	305	6.2	--	.2	--	--	--	--
01307920 - SAMPAWAMS C(BAY SHORE RD)NR N BABYLON NY (LAT 40 44 27 LONG 073 18 24)										
DEC., 1972 05...	32	24	130	6.7	7.0	.0	--	--	--	--
JULY, 1973 02...	25	19	106	6.2	--	.0	--	--	--	--
AUG. 10...	26	18	120	5.7	20.0	.0	0	20	6	1.2
SEP. 13...	29	25	130	6.3	15.0	.0	--	--	--	--
01307970 - SAMPAWAMS CREEK AT NORTH BABYLON NY (LAT 40 43 05 LONG 073 18 51)										
AUG., 1973 10...	40	26	175	4.9	23.0	.0	0	10	5	6.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
STREAMS ON LONG ISLAND--Continued											
01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)											
DEC., 1972											
05...	1045	9.3	8.0	830	920	12	2.8	16	3.3	0	14
FEB., 1973											
22...	1330	13	8.5	780	1300	7.8	2.9	22	3.8	0	15
MAY											
01...	1015	14	7.6	850	750	10	2.7	15	3.0	0	12
JULY											
02...	--	12	7.2	510	300	9.4	2.8	13	2.5	0	17
SEP.											
13...	0945	4.2	7.5	1200	440	12	2.8	16	4.3	0	13
01308200 - SAMPAWAMS C BELOW HAWLEYS L AT BABYLON NY (LAT 40 41 48 LONG 073 19 04)											
AUG., 1973											
10...	1230	--	4.6	540	200	11	2.8	14	3.2	0	18
01308300 - CARLLS RIVER AT WYANDANCH NY (LAT 40 44 25 LONG 073 20 39)											
SEP., 1973											
13...	1200	--	7.5	1600	580	14	3.1	22	4.9	0	15
01308310 - CARLLS RIVER AT WEST BABYLON NY (LAT 40 43 55 LONG 073 20 32)											
AUG., 1973											
10...	1435	--	6.7	1600	3200	11	3.2	23	3.6	0	20
SEP.											
13...	1245	--	7.6	1800	840	11	3.0	23	4.7	0	12
01308405 - CARLLS RIVER AT NORTH BABYLON NY (LAT 40 44 01 LONG 073 19 55)											
DEC., 1972											
04...	1015	--	9.0	880	2800	21	4.0	28	6.2	0	16
01308420 - ELDA LAKE TRIBUTARY AT NORTH BABYLON, N.Y. (LAT 40 43 52 LONG 073 19 40)											
AUG., 1973											
10...	1430	--	9.7	340	2200	15	3.6	21	5.1	0	11
01308440 - ELDA LAKE OUTLET AT NORTH BABYLON NY (LAT 40 43 20 LONG 073 19 44)											
DEC., 1972											
04...	1045	--	8.6	710	1300	15	3.3	19	4.0	0	16
SEP., 1973											
13...	1315	--	6.5	2500	1300	15	3.3	18	5.0	0	18
01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)											
DEC., 1972											
04...	1225	25	6.7	430	560	12	2.7	19	3.0	0	12
FEB., 1973											
22...	1400	31	6.8	440	750	12	3.0	21	3.3	0	17
MAY											
01...	1000	36	7.5	620	650	12	3.0	20	3.0	0	14
JULY											
02...	--	41	6.5	540	830	9.8	2.5	14	2.5	0	15
SEP.											
13...	1345	15	7.5	1100	550	10	3.4	20	3.6	0	13
01308600 - CARLLS RIVER AT PARK AVENUE AT BABYLON NY (LAT 40 42 06 LONG 073 19 43)											
AUG., 1973											
10...	1400	--	7.6	1100	450	11	3.0	18	3.3	0	17
01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)											
FEB., 1973											
27...	--	1.5	7.4	1100	1800	17	4.3	25	4.3	0	22
MAY											
01...	0930	--	9.2	710	1100	17	4.0	26	4.6	0	22
JULY											
06...	--	--	6.2	570	1200	17	4.2	25	5.2	0	47
AUG.											
09...	1015	--	8.3	40	680	13	3.8	21	3.5	0	22
SEP.											
13...	1430	--	9.7	2900	2300	22	4.1	23	6.3	0	62

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
STREAMS ON LONG ISLAND--Continued										
01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)										
DEC., 1972 05...	11	27	20	.4	4.5	.04	.00	.88	.03	116
FEB., 1973 22...	12	25	29	.0	2.9	.20	1.0	1.0	.02	122
MAY 01...	10	21	15	.3	3.6	.00	.05	1.3	.01	96
JULY 02...	14	17	16	.2	2.4	.00	.11	.90	.02	87
SEP. 13...	11	25	19	.3	4.0	.04	.76	.11	.03	112
01308200 - SAMPAWAMS C BELOW HAWLEYS L AT BABYLON NY (LAT 40 41 48 LONG 073 19 04)										
AUG., 1973 10...	15	22	18	.3	2.8	.01	.22	--	.01	97
01308300 - CARLLS RIVER AT WYANDANCH NY (LAT 40 44 25 LONG 073 20 39)										
SEP., 1973 13...	12	27	28	.2	5.4	.03	.93	--	.01	139
01308310 - CARLLS RIVER AT WEST BABYLON NY (LAT 40 43 55 LONG 073 20 32)										
AUG., 1973 10...	16	27	28	.4	2.5	.04	.56	--	.10	125
SEP. 13...	10	31	29	.3	2.2	.04	.08	--	.03	126
01308405 - CARLLS RIVER AT NORTH BABYLON NY (LAT 40 44 01 LONG 073 19 55)										
DEC., 1972 04...	13	43	32	.2	8.7	3.3	.15	1.1	.12	190
01308420 - ELDA LAKE TRIBUTARY AT NORTH BABYLON, N.Y. (LAT 40 43 52 LONG 073 19 40)										
AUG., 1973 10...	9	34	24	.4	4.7	.07	3.1	--	.01	143
01308440 - ELDA LAKE OUTLET AT NORTH BABYLON NY (LAT 40 43 26 LONG 073 19 44)										
DEC., 1972 04...	11	32	21	.4	5.9	1.5	.00	.36	.03	136
SEP., 1973 13...	15	29	29	.3	2.7	.09	2.2	--	.04	130
01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)										
DEC., 1972 04...	10	26	25	.7	4.1	.00	.00	.59	.03	120
FEB., 1973 22...	14	27	28	.0	3.3	.14	1.5	.03	.13	126
MAY 01...	11	24	25	.3	4.1	.00	.24	1.2	.02	120
JULY 02...	12	17	19	.3	2.6	.00	.03	1.0	.03	91
SEP. 13...	11	26	25	.2	2.6	.04	.51	.21	.03	114
01308600 - CARLLS RIVER AT PARK AVENUE AT BABYLON NY (LAT 40 42 06 LONG 073 19 43)										
AUG., 1973 10...	14	23	23	.4	2.6	.07	.43	--	.01	110
01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)										
FEB., 1973 27...	10	38	34	.1	3.0	.07	1.1	1.3	.06	156
MAY 01...	18	41	32	.2	5.4	.03	1.7	.19	.00	171
JULY 06...	39	24	33	.3	2.6	.00	.08	1.3	.03	150
AUG. 09...	18	30	28	.4	3.4	.01	1.3	--	.00	136
SEP. 13...	51	31	28	.2	.14	.01	.44	.12	.06	156

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND—Continued										
01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)										
DEC., 1972 05...	41	30	204	6.8	8.0	.1	--	--	--	--
FEB., 1973 22...	31	19	216	6.2	5.5	.2	--	--	--	--
MAY 01...	36	26	162	6.5	--	.1	--	--	--	--
JULY 02...	35	21	160	6.5	21.0	.0	--	--	--	--
SEP. 13...	41	31	200	6.3	16.0	.0	--	--	--	--
01308200 - SAMPAWAMS C BELOW HAWLEYS L AT BABYLON NY (LAT 40 41 48 LONG 073 19 04)										
AUG., 1973 10...	39	24	180	5.3	24.0	.0	0	10	8	<.5
01308300 - CARLLS RIVER AT WYANDANCH NY (LAT 40 44 25 LONG 073 20 39)										
SEP., 1973 13...	48	35	240	5.4	15.0	.0	--	--	--	--
01308310 - CARLLS RIVER AT WEST BABYLON NY (LAT 40 43 55 LONG 073 20 32)										
AUG., 1973 10...	41	24	240	5.8	26.0	.0	0	10	--	4.1
SEP. 13...	48	38	240	5.7	20.0	.0	--	--	--	--
01308405 - CARLLS RIVER AT NORTH BABYLON NY (LAT 40 44 01 LONG 073 19 55)										
DEC., 1972 04...	69	56	370	7.0	9.0	.1	--	--	--	--
01308420 - ELDA LAKE TRIBUTARY AT NORTH BABYLON, N.Y. (LAT 40 43 52 LONG 073 19 40)										
AUG., 1973 10...	52	43	380	4.4	17.0	.1	0	10	6	.5
01308440 - ELDA LAKE OUTLET AT NORTH BABYLON NY (LAT 40 43 26 LONG 073 19 44)										
DEC., 1972 04...	51	40	255	6.8	6.0	.1	--	--	--	--
SEP., 1973 13...	51	36	240	5.7	19.0	.0	--	--	--	--
01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)										
DEC., 1972 04...	41	31	214	6.3	6.0	.0	--	--	--	--
FEB., 1973 22...	42	28	240	6.6	7.0	.0	--	--	--	--
MAY 01...	42	31	201	6.5	13.0	.0	--	--	--	--
JULY 02...	35	22	155	6.2	21.0	.0	--	--	--	--
SEP. 13...	39	28	215	6.3	19.0	.0	--	--	--	--
01308600 - CARLLS RIVER AT PARK AVENUE AT BABYLON NY (LAT 40 42 06 LONG 073 19 43)										
AUG., 1973 10...	40	26	2	5.5	24.0	.0	0	20	4	.7
01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 28)										
FEB., 1973 27...	60	42	297	6.2	7.0	.0	--	--	--	--
MAY 01...	59	41	287	6.8	13.0	.1	--	--	--	--
JULY 06...	60	21	266	6.7	20.0	.0	--	--	--	--
AUG. 09...	48	38	235	4.5	17.0	.0	0	10	1	.7
SEP. 13...	72	21	290	6.3	17.0	.0	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS ON LONG ISLAND--Continued											
01309200 - NEGUNTATOGUE CREEK AT LINDENHURST NY (LAT 40 40 47 LONG 073 21 40)											
AUG., 1973											
09...	0945	--	9.9	420	1200	18	4.0	26	4.8	40	0
01309340 - WOODS CREEK NEAR AMITYVILLE NY (LAT 40 40 04 LONG 073 24 18)											
DEC., 1972											
18...	1530	--	8.4	700	1400	20	16	130	8.6	42	0
MAY , 1973											
30...	1030	--	3.0	570	630	102	290	2400	95	67	0
01309350 - AMITYVILLE CREEK AT AMITYVILLE NY (LAT 40 40 13 LONG 073 24 51)											
AUG., 1973											
09...	0845	--	7.9	1200	1400	15	3.6	17	4.2	33	0
01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)											
FEB., 1973											
23...	1100	4.8	9.3	780	1300	23	3.4	32	5.9	39	0
MAY											
01...	0800	11	7.4	380	100	23	3.4	31	5.6	35	0
JULY											
03...	0900	10	9.5	320	1300	21	3.1	27	5.2	21	0
SEP.											
21...	1015	4.1	8.6	3300	1300	20	3.5	28	5.9	22	0
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)											
FEB., 1973											
23...	1120	4.9	9.2	580	1300	25	3.2	33	6.8	28	0
MAY											
01...	0815	5.8	--	--	--	--	--	--	--	--	--
JULY											
02...	0900	7.0	10	270	1000	24	3.7	30	6.1	25	0
SEP.											
21...	1030	1.5	9.2	220	970	23	4.0	33	6.7	30	0
01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)											
MAR., 1973											
30...	1130	1.1	9.0	730	780	26	6.0	18	3.4	50	0
MAY											
04...	1215	1.8	6.5	870	470	21	4.8	14	3.0	47	0
01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)											
MAR., 1973											
30...	1145	.50	2.1	420	320	7.0	2.0	7.0	1.1	20	0
MAY											
04...	1245	1.4	5.7	1000	580	17	4.1	16	2.2	46	0
JULY											
05...	0915	9.0	3.7	1100	470	10	2.8	6.4	1.9	30	0

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
STREAMS ON LONG ISLAND--Continued										
01309200 - NEGUNTATOGUE CREEK AT LINDENHURST NY (LAT 40 40 47 LONG 073 21 40)										
AUG., 1973 09...	33	40	28	.4	2.4	.04	3.2	--	.06	165
01309340 - WOODS CREEK NEAR AMITYVILLE NY (LAT 40 40 04 LONG 073 24 18)										
DEC., 1972 18...	34	64	220	.2	2.2	.19	3.4	.44	.01	502
MAY , 1973 30...	55	670	4500	.5	1.0	.09	1.8	.30	.02	8100
01309350 - AMITYVILLE CREEK AT AMITYVILLE NY (LAT 40 40 13 LONG 073 24 51)										
AUG., 1973 09...	27	26	24	.3	2.3	.04	1.6	--	.05	127
01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)										
FEB., 1973 23...	32	47	36	.1	8.5	.31	2.6	.94	.01	217
MAY 01...	29	48	31	.1	7.3	.39	1.9	.80	--	202
JULY 03...	17	40	31	.3	8.4	.00	.08	.86	.02	185
SEP. 21...	18	45	30	.2	6.2	.29	2.3	--	.01	182
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)										
FEB., 1973 23...	23	51	33	.1	12	.37	2.1	.00	.01	231
MAY 01...	--	--	--	--	--	--	--	--	--	--
JULY 02...	21	45	31	.3	10	.00	.06	.41	.04	207
SEP. 21...	25	47	35	.5	8.2	.04	2.5	--	.03	213
01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)										
MAR., 1973 30...	41	44	30	.2	2.7	.21	.00	1.4	.03	173
MAY 04...	39	30	21	.3	1.4	.01	.05	.63	.07	130
01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)										
MAR., 1973 30...	16	8.5	12	.2	.80	.00	.20	.56	.10	54
MAY 04...	38	21	23	.3	1.2	.01	.05	1.0	.10	117
JULY 05...	25	11	9.5	.3	.95	.00	.08	1.1	.16	65

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

STREAMS ON LONG ISLAND--Continued

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
01309200 - NEGUNTATOGUE CREEK AT LINDENHURST NY (LAT 40 40 47 LONG 073 21 40)										
AUG., 1973 09...	61	29	320	4.0	16.0	.1	0	20	9	2.4
01309340 - WOODS CREEK NEAR AMITYVILLE NY (LAT 40 40 04 LONG 073 24 18)										
DEC., 1972 18...	120	86	951	7.0	--	.1	--	--	--	--
MAY , 1973 30...	1400	1400	13400	6.7	--	.6	--	--	--	--
01309350 - AMITYVILLE CREEK AT AMITYVILLE NY (LAT 40 40 13 LONG 073 24 51)										
AUG., 1973 09...	52	25	230	5.2	21.0	.1	0	10	10	.9
01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)										
FEB., 1973 23...	71	39	361	6.5	8.0	.1	--	--	--	--
MAY 01...	71	43	332	7.3	12.0	.2	0	0	4	.5
JULY 03...	65	48	303	6.7	18.0	.0	--	--	--	--
SEP. 21...	64	46	335	6.3	15.0	.1	--	--	--	--
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)										
FEB., 1973 23...	76	53	410	6.4	9.0	.1	--	--	--	--
MAY 01...	--	--	330	--	13.0	--	--	0	4	.5
JULY 02...	75	55	336	6.7	18.0	.0	--	--	--	--
SEP. 21...	74	49	390	6.3	14.0	.1	--	--	--	--
01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)										
MAR., 1973 30...	90	49	279	6.6	9.0	.1	--	--	--	--
MAY 04...	72	34	240	6.9	18.5	.0	0	0	66	3.3
01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)										
MAR., 1973 30...	26	9	98	6.9	10.0	.0	--	--	--	--
MAY 04...	59	22	290	6.8	18.5	.1	0	0	72	.8
JULY 05...	37	12	120	6.5	25.0	.0	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
HUDSON RIVER BASIN												
01319800 - WEST BRANCH SACANDAGA RIVER AT ARIETTA NY (LAT 43 15 03 LONG 074 31 06)												
SEP.. 1973 05...	1050	1.3	5.5	4800	250	1.9	.6	1.2	.5	7	0	6
01333360 - HOOSIC RIVER AT NORTH PETERSBURG NY (LAT 42 49 35 LONG 073 19 21)												
JAN.. 1973 03...	0945	--	3.7	--	--	18	4.3	5.5	.7	58	0	48
01333520 - DILL CREEK NEAR PETERSBURG NY (LAT 42 45 47 LONG 073 21 23)												
SEP.. 1973 12...	0900	.16	7.7	70	0	8.2	1.1	4.9	.8	21	0	17
01334500 - HOOSIC RIVER NEAR EAGLE BRIDGE NY (LAT 42 56 19 LONG 073 22 39)												
JUNE. 1973 30...	1600	18900	3.7	--	--	19	4.6	2.5	2.4	54	0	44
JULY 01...	1200	5580	4.4	--	--	17	3.8	3.2	1.0	57	0	47
01335000 - HOOSIC RIVER AT BUSKIRK NY (LAT 42 57 30 LONG 073 26 00)												
JUNE. 1973 30...	1100	4480	3.5	--	--	9.1	2.0	1.6	2.7	23	0	19
01338800 - SAUQUOIT CREEK AT NEW HARTFORD NY (LAT 43 04 28 LONG 075 17 12)												
SEP.. 1973 11...	1245	21	5.5	140	0	85	26	7.0	1.7	198	0	162
01350470 - LITTLE SCHOHARIE CREEK NEAR RENSSELAERVILLE NY (LAT 42 33 40 LONG 074 13 56)												
AUG.. 1973 09...	1100	.36	5.0	1400	20	18	2.6	5.0	.9	59	0	48
01350900 - BEAVERDAM CREEK NEAR KNOX NY (LAT 42 38 57 LONG 074 07 56)												
AUG.. 1973 09...	0840	.22	3.0	510	30	68	5.9	17	1.7	220	0	180
01350950 - SWITZ KILL NEAR BERNE. N.Y. (LAT 42 36 41 LONG 074 09 24)												
AUG.. 1973 09...	1235	3.3	3.9	810	40	36	3.4	6.1	1.2	115	0	94
01351000 - FOX CREEK AT WEST BERNE NY (LAT 42 37 42 LONG 074 11 08)												
AUG.. 1973 09...	1010	15	2.5	460	30	44	3.7	9.3	1.8	129	0	106
01354080 - SOUTH CHUCTANUNDA CREEK AT AMSTERDAM NY (LAT 42 56 04 LONG 074 12 44)												
SEP.. 1973 12...	1105	6.0	1.9	110	40	32	5.4	7.8	1.6	103	0	84
01354470 - POENTIC KILL AT SCHENECTADY NY (LAT 42 48 31 LONG 073 59 32)												
SEP.. 1973 12...	1445	4.2	13	5000	550	85	15	120	5.8	204	0	167
01355450 - INDIAN KILL NEAR ALPLAUS NY (LAT 42 52 12 LONG 073 54 18)												
SEP.. 1973 12...	1315	1.6	11	430	120	70	9.7	50	3.0	221	0	181
01356310 - SHAKER CREEK TRIBUTARY NEAR LATHAM NY (LAT 42 45 01 LONG 073 46 54)												
AUG.. 1973 01...	1645	.49	11	400	140	82	18	100	4.2	232	0	190
01359125 - VAN RENSSELAER CREEK AT MENANDS NY (LAT 42 41 03 LONG 073 44 32)												
AUG.. 1973 08...	1615	.46	15	590	200	94	26	26	1.7	260	0	213

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
HUDSON RIVER BASIN											
01319800 - WEST BRANCH SACANDAGA RIVER AT ARIETTA NY (LAT 43 15 03 LONG 074 31 06)											
SEP., 1973 05...	7.0	.5	.2	.02	.00	22	7	1	22	6.2	21.5
01333360 - HOOSIC RIVER AT NORTH PETERSBURG NY (LAT 42 49 35 LONG 073 19 21)											
JAN., 1973 03...	13	7.5	.0	.49	.00	84	63	15	155	7.3	--
01333520 - DILL CREEK NEAR PETERSBURG NY (LAT 42 45 47 LONG 073 21 23)											
SEP., 1973 12...	7.9	6.5	.2	.15	.01	48	25	8	80	7.2	12.0
01334500 - HOOSIC RIVER NEAR EAGLE BRIDGE NY (LAT 42 56 19 LONG 073 22 39)											
JUNE, 1973 30...	30	3.8	.1	.57	.03	96	66	22	126	7.1	--
JULY 01...	13	3.5	.1	.39	.01	76	58	11	123	7.3	17.0
01335000 - HOOSIC RIVER AT BUSKIRK NY (LAT 42 57 30 LONG 073 26 00)											
JUNE, 1973 30...	15	3.2	.2	.26	.03	50	31	12	59	6.7	17.0
01338800 - SAUQUOIT CREEK AT NEW HARTFORD NY (LAT 43 04 28 LONG 075 17 12)											
SEP., 1973 11...	170	10	.2	1.4	.01	409	320	160	717	8.0	16.0
01350470 - LITTLE SCHOHARIE CREEK NEAR RENSSELAERVILLE NY (LAT 42 33 40 LONG 074 13 56)											
AUG., 1973 09...	8.0	6.7	.1	.01	.00	75	56	7	133	7.6	18.0
01350900 - BEAVERDAM CREEK NEAR KNOX NY (LAT 42 38 57 LONG 074 07 56)											
AUG., 1973 09...	14	23	.2	.00	.00	241	190	14	418	8.2	21.0
01350950 - SWITZ KILL NEAR BERNE, N.Y. (LAT 42 36 41 LONG 074 09 24)											
AUG., 1973 09...	10	8.4	.2	.13	.00	126	100	10	227	7.6	23.0
01351000 - FOX CREEK AT WEST BERNE NY (LAT 42 37 42 LONG 074 11 08)											
AUG., 1973 09...	15	13	.2	.29	.01	154	130	19	275	7.8	22.0
01354080 - SOUTH CHUCTANUNDA CREEK AT AMSTERDAM NY (LAT 42 56 04 LONG 074 12 44)											
SEP., 1973 12...	20	11	.2	.00	.00	131	100	18	244	8.2	15.5
01354470 - POENTIC KILL AT SCHENECTADY NY (LAT 42 48 31 LONG 073 59 32)											
SEP., 1973 12...	66	210	.5	3.0	.00	629	270	110	1130	7.0	17.0
01355450 - INDIAN KILL NEAR ALPLAUS NY (LAT 42 52 12 LONG 073 54 18)											
SEP., 1973 12...	45	54	.4	2.8	.00	364	220	33	617	8.0	15.5
01356310 - SHAKER CREEK TRIBUTARY NEAR LATHAM NY (LAT 42 45 01 LONG 073 46 54)											
AUG., 1973 01...	63	180	.2	.90	.00	577	280	89	1020	8.0	22.0
01359125 - VAN RENSSELAER CREEK AT MENANDS NY (LAT 42 41 03 LONG 073 44 32)											
AUG., 1973 08...	78	67	.2	3.4	.00	443	340	130	731	8.2	21.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
HUDSON RIVER BASIN--Continued												
01359270 - INDIAN HOUSE CREEK AT DUNNSVILLE NY (LAT 42 44 25 LONG 074 00 51)												
AUG., 1973 08...	0855	.01	2.5	460	130	68	18	44	4.5	225	0	185
01359320 - BOZEN KILL NEAR ALTAMONT NY (LAT 42 42 50 LONG 074 02 47)												
AUG., 1973 08...	0945	.77	4.0	0	10	38	7.8	17	2.2	113	0	93
01359325 - BLACK CREEK NEAR VOORHEESVILLE NY (LAT 42 40 35 LONG 073 57 10)												
AUG., 1973 07...	0940	6.8	14	390	80	53	8.4	6.5	1.5	170	0	139
01359330 - BLACK CREEK NEAR GUILDERLAND CENTER NY (LAT 42 43 14 LONG 073 59 44)												
AUG., 1973 07...	1045	6.5	10	470	50	51	8.7	7.7	1.9	153	0	125
01359340 - BOZEN KILL NEAR GUILDERLAND CENTER NY (LAT 42 43 21 LONG 073 59 33)												
AUG., 1973 07...	1140	8.8	8.5	330	10	51	9.2	12	2.0	150	0	123
01359507 - HUNGER KILL NEAR GUILDERLAND NY (LAT 42 43 25 LONG 073 55 06)												
AUG., 1973 07...	1250	10	10	1400	80	61	9.0	46	1.4	150	0	123
01359517 - BLOCK HOUSE CREEK NEAR GUILDERLAND NY (LAT 42 41 08 LONG 073 54 05)												
AUG., 1973 07...	1355	2.5	12	1900	150	67	11	51	3.1	198	0	162
01359518 - KAIKOUT KILL NEAR GUILDERLAND NY (LAT 42 41 20 LONG 073 54 08)												
AUG., 1973 07...	1440	3.3	11	9900	360	50	8.3	16	1.3	153	0	125
01359519 - NORMANS KILL NEAR WESTMERE NY (LAT 42 40 43 LONG 073 54 25)												
NOV., 1972 09...	1000	4040	4.8	530	130	45	8.8	21	3.3	109	0	89
01359520 - VLY CREEK TRIBUTARY AT NEW SALEM NY (LAT 42 38 06 LONG 073 57 49)												
AUG., 1973 07...	0810	.92	5.8	290	70	79	9.6	23	1.2	225	0	185
01359524 - KRUM KILL AT KARLSFELD NY (LAT 42 38 56 LONG 073 50 51)												
AUG., 1973 01...	1545	4.0	11	920	500	76	15	78	4.3	203	0	167
01359539 - NORMANS KILL TRIBUTARY AT BETHLEHEM CENTER NY (LAT 42 36 28 LONG 073 47 42)												
AUG., 1973 01...	1140	.20	8.9	910	80	74	13	28	3.0	228	0	187
01359585 - VLOMAN KILL AT NEW SCOTLAND NY (LAT 42 37 27 LONG 073 54 16)												
AUG., 1973 08...	1525	1.0	8.5	200	80	54	12	11	1.9	151	0	124
01359588 - PHILLIPIN KILL AT UNIONVILLE NY (LAT 42 36 49 LONG 073 52 35)												
AUG., 1973 08...	1425	.05	4.9	390	120	45	12	20	2.6	173	0	142

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
HUDSON RIVER BASIN--Continued											
01359270 - INDIAN HOUSE CREEK AT DUNNSVILLE NY (LAT 42 44 25 LONG 074 00 51)											
AUG., 1973 08...	60	64	.3	.10	.00	373	240	59	650	7.8	22.0
01359320 - BOZEN KILL NEAR ALTAMONT NY (LAT 42 42 50 LONG 074 02 47)											
AUG., 1973 08...	29	23	.2	.00	.00	177	130	34	316	8.2	21.0
01359325 - BLACK CREEK NEAR VOORHEESVILLE NY (LAT 42 40 35 LONG 073 57 10)											
AUG., 1973 07...	17	12	.2	.00	.00	196	170	27	327	7.5	22.0
01359330 - BLACK CREEK NEAR GUILDERLAND CENTER NY (LAT 42 43 14 LONG 073 59 44)											
AUG., 1973 07...	35	14	.2	.29	.00	205	160	38	337	7.8	23.0
01359340 - BOZEN KILL NEAR GUILDERLAND CENTER NY (LAT 42 43 21 LONG 073 59 33)											
AUG., 1973 07...	34	21	.2	.00	.00	212	170	42	359	8.0	23.0
01359507 - HUNGER KILL NEAR GUILDERLAND NY (LAT 42 43 25 LONG 073 55 06)											
AUG., 1973 07...	42	76	.1	1.6	.00	326	190	66	572	8.0	14.0
01359517 - BLOCK HOUSE CREEK NEAR GUILDERLAND NY (LAT 42 41 08 LONG 073 54 05)											
AUG., 1973 07...	44	67	.3	5.0	.01	375	210	50	638	7.3	20.0
01359518 - KAIKOUT KILL NEAR GUILDERLAND NY (LAT 42 41 20 LONG 073 54 08)											
AUG., 1973 07...	24	28	.2	.62	.00	217	160	34	373	7.9	20.0
01359519 - NORMANS KILL NEAR WESTMERE NY (LAT 42 40 43 LONG 073 54 25)											
NOV., 1972 09...	47	38	.1	.40	--	224	150	59	383	7.7	7.0
01359520 - VLY CREEK TRIBUTARY AT NEW SALEM NY (LAT 42 38 06 LONG 073 57 49)											
AUG., 1973 07...	31	42	.3	.09	.00	303	240	52	528	7.9	17.0
01359524 - KRUM KILL AT KARLSFELD NY (LAT 42 38 56 LONG 073 50 51)											
AUG., 1973 01...	51	130	.3	3.1	.00	479	250	85	843	7.2	22.5
01359539 - NORMANS KILL TRIBUTARY AT BETHLEHEM CENTER NY (LAT 42 36 28 LONG 073 47 42)											
AUG., 1973 01...	44	41	.3	1.3	.00	338	240	51	551	8.2	28.0
01359585 - VLOMAN KILL AT NEW SCOTLAND NY (LAT 42 37 27 LONG 073 54 16)											
AUG., 1973 08...	58	23	.2	.57	.00	245	180	60	404	7.7	23.5
01359588 - PHILLIPIN KILL AT UNIONVILLE NY (LAT 42 36 49 LONG 073 52 35)											
AUG., 1973 08...	30	18	.4	.20	.00	219	160	20	374	7.9	26.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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HUDSON RIVER BASIN--Continued												
01359590 - PHILLIPIN KILL NEAR FEURA BUSH NY (LAT 42 35 24 LONG 073 50 49)												
AUG., 1973												
01...	1445	.02	1.0	1100	90	44	11	30	3.9	183	0	150
01359592 - VLOMAN KILL AT MALLORYS CORNERS NY (LAT 42 33 54 LONG 073 49 48)												
AUG., 1973												
01...	1330	.95	.7	600	60	46	13	16	2.6	162	0	133
01359595 - DOWERS KILL NEAR SELKIRK NY (LAT 42 34 04 LONG 073 48 53)												
AUG., 1973												
01...	1355	.00	1.4	600	240	63	14	39	3.9	233	0	191
01359830 - ONESQUETHAW CREEK NEAR CLARKSVILLE NY (LAT 42 33 49 LONG 073 55 44)												
AUG., 1973												
08...	1345	4.2	5.0	60	0	64	5.6	14	2.2	189	0	155
01359904 - FEURI SPRUYT AT SOUTH BETHLEHEM NY (LAT 42 31 40 LONG 073 50 50)												
AUG., 1973												
01...	1240	.16	8.5	60	0	130	34	20	12	167	0	137
01359915 - HANNACROIS CREEK AT DORMANSVILLE NY (LAT 42 29 49 LONG 073 58 46)												
AUG., 1973												
08...	0810	2.1	4.4	100	10	20	2.9	5.0	1.0	62	0	51
01359917 - SILVER CREEK TRIBUTARY AT DORMANSVILLE, N.Y. (LAT 42 29 01 LONG 073 59 37)												
AUG., 1973												
08...	0910	7.0	5.3	2000	760	25	2.3	8.3	1.5	79	0	65
01359918 - SILVER CREEK AT DORMANSVILLE NY (LAT 42 29 17 LONG 073 58 56)												
AUG., 1973												
08...	1000	8.1	5.6	1800	420	25	2.5	8.2	1.4	80	0	66
01359990 - EAST BROOK AT STEPHENTOWN NY (LAT 42 33 08 LONG 073 22 43)												
SEP., 1973												
21...	0910	1.7	5.5	240	20	25	4.8	4.6	.7	71	0	58
01360520 - GREEN BROOK AT RIDERS MILLS NY (LAT 42 28 50 LONG 073 34 01)												
SEP., 1973												
17...	1335	.61	7.1	2000	240	13	3.0	4.1	.9	38	0	31
01360530 - TROUT BROOK NEAR OLD CHATHAM NY (LAT 42 26 38 LONG 073 35 05)												
SEP., 1973												
17...	1300	7.3	6.1	1000	170	36	7.3	21	1.8	88	0	72
01360550 - STONY KILL NEAR EAST CHATHAM NY (LAT 42 23 22 LONG 073 33 05)												
SEP., 1973												
17...	1205	12	5.8	1300	250	24	6.2	15	1.2	82	0	67
01360570 - INDIAN CREEK NEAR CHATHAM NY (LAT 42 21 11 LONG 073 34 34)												
SEP., 1973												
17...	1035	2.2	5.7	20	10	18	3.0	4.1	.9	46	0	38
01360580 - PUNSIT CREEK NEAR CHATHAM NY (LAT 42 20 50 LONG 073 34 31)												
SEP., 1973												
17...	1115	2.0	5.2	900	150	26	3.7	5.8	1.4	75	0	62

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
HUDSON RIVER BASIN--Continued											
01359590 - PHILLIPIN KILL NEAR FEURA BUSH NY (LAT 42 35 24 LONG 073 50 49)											
AUG., 1973 01...	24	29	.4	.15	.00	234	160	5	419	8.0	26.0
01359592 - VLOMAN KILL AT MALLORYS CORNERS NY (LAT 42 33 54 LONG 073 49 48)											
AUG., 1973 01...	41	25	.3	.47	.00	226	170	36	412	7.6	.2
01359595 - DOWERS KILL NEAR SELKIRK NY (LAT 42 34 04 LONG 073 48 53)											
AUG., 1973 01...	38	50	.3	.45	.00	326	220	24	574	7.6	25.0
01359830 - ONESQUETHAW CREEK NEAR CLARKSVILLE NY (LAT 42 33 49 LONG 073 55 46)											
AUG., 1973 08...	25	19	.2	1.2	.01	233	180	28	400	8.3	22.0
01359904 - FEURI SPRUYT AT SOUTH BETHLEHEM NY (LAT 42 31 40 LONG 073 50 50)											
AUG., 1973 01...	350	24	.4	2.4	.00	672	470	330	991	7.9	22.0
01359915 - HANNACROIS CREEK AT DORMANSVILLE NY (LAT 42 29 49 LONG 073 58 46)											
AUG., 1973 08...	11	6.0	.1	.01	.00	81	62	11	146	7.4	20.0
01359917 - SILVER CREEK TRIBUTARY AT DORMANSVILLE, N.Y. (LAT 42 29 01 LONG 073 59 37)											
AUG., 1973 08...	6.2	13	.2	.80	.00	104	72	7	181	7.2	20.5
01359918 - SILVER CREEK AT DORMANSVILLE NY (LAT 42 29 17 LONG 073 58 56)											
AUG., 1973 08...	6.1	11	.1	.89	.00	103	73	7	183	7.2	21.0
01359990 - EAST BROOK AT STEPHENTOWN NY (LAT 42 33 08 LONG 073 22 43)											
SEP., 1973 21...	14	12	.3	.70	.00	105	82	24	189	7.7	9.0
01360520 - GREEN BROOK AT RIDERS MILLS NY (LAT 42 28 50 LONG 073 34 01)											
SEP., 1973 17...	16	3.0	.4	.16	.00	67	45	14	113	7.3	15.0
01360530 - TROUT BROOK NEAR OLD CHATHAM NY (LAT 42 26 38 LONG 073 35 05)											
SEP., 1973 17...	39	40	.4	.40	.00	197	120	48	359	8.2	14.0
01360550 - STONY KILL NEAR EAST CHATHAM NY (LAT 42 23 22 LONG 073 33 05)											
SEP., 1973 17...	17	20	.4	.41	.00	132	85	18	242	7.9	14.0
01360570 - INDIAN CREEK NEAR CHATHAM NY (LAT 42 21 11 LONG 073 34 34)											
SEP., 1973 17...	18	3.9	.4	.90	.00	81	57	20	137	7.6	14.0
01360580 - PUNSIT CREEK NEAR CHATHAM NY (LAT 42 20 50 LONG 073 34 31)											
SEP., 1973 17...	18	6.4	.4	.60	.00	106	80	19	185	7.5	14.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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HUDSON RIVER BASIN--Continued												
01360600 - KLINE KILL NEAR VALATIE NY (LAT 42 22 33 LONG 073 37 53)												
SEP., 1973 17...	0930	5.3	8.1	50	30	26	4.3	7.5	1.6	71	0	58
01360700 - VALATIE KILL NEAR NORTH CHATHAM NY (LAT 42 27 42 LONG 073 38 37)												
SEP., 1973 17...	1500	4.0	7.1	730	120	30	5.9	10	1.4	86	0	71
01361250 - TAGHANIC CREEK AT CRARYVILLE NY (LAT 42 10 10 LONG 073 34 53)												
SEP., 1973 13...	1350	5.4	7.6	430	80	24	3.5	4.7	.8	56	0	46
01361310 - LOOMIS CREEK NEAR CLAVERACK NY (LAT 42 11 43 LONG 073 44 21)												
SEP., 1973 13...	1505	.18	7.7	3800	650	37	5.6	5.1	1.3	107	0	88
01361465 - FOX CREEK NEAR PRESTON HOLLOW NY (LAT 42 27 46 LONG 074 10 53)												
AUG., 1973 08...	1400	.27	3.8	220	10	22	3.1	4.5	1.0	71	0	58
01361480 - CATSKILL CREEK TRIBUTARY AT MEDUSA NY (LAT 42 26 11 LONG 074 09 08)												
AUG., 1973 08...	1306	.70	3.9	170	0	30	3.7	7.2	2.4	92	0	75
01361550 - TENMILE CREEK AT MEDUSA NY (LAT 42 26 10 LONG 074 07 58)												
AUG., 1973 08...	1155	8.8	2.8	530	10	17	2.0	8.8	1.0	50	0	41
01361560 - EIGHTMILE CREEK AT MEDUSA NY (LAT 42 26 07 LONG 074 07 24)												
AUG., 1973 08...	1145	2.0	3.3	10	0	24	2.7	6.0	1.3	72	0	59
01361760 - WOLF FLY CREEK AT SOUTH WESTERLO NY (LAT 42 26 46 LONG 074 01 52)												
AUG., 1973 08...	1245	1.1	4.0	430	10	29	3.1	7.7	1.3	82	0	67
01361900 - SHINGLE KILL AT CAIRO NY (LAT 42 18 22 LONG 074 00 15)												
SEP., 1973 13...	0915	1.8	4.6	50	15	11	2.2	11	1.0	33	0	27
01362155 - PREECHEY HOLLOW BROOK NEAR COPAKE NY (LAT 42 04 04 LONG 073 31 53)												
SEP., 1973 13...	1300	.54	6.2	50	20	31	11	1.5	.3	140	0	115
01362156 - NOSTER KILL NEAR COPAKE NY (LAT 42 04 04 LONG 073 31 53)												
SEP., 1973 13...	1230	2.6	6.2	40	0	43	22	4.1	1.0	218	0	179
01362168 - FALL KILL NEAR ELIZAVILLE NY (LAT 42 00 56 LONG 073 43 59)												
SEP., 1973 13...	1125	.02	8.1	390	40	21	2.6	5.3	.6	59	0	48
01362180 - DOOVE KILL AT MANORTON NY (LAT 42 05 03 LONG 073 47 52)												
SEP., 1973 13...	1050	.81	6.0	100	20	20	3.0	4.5	1.3	51	0	42

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
HUDSON RIVER BASIN--Continued											
01360600 - KLINE KILL NEAR VALATIE NY (LAT 42 22 33 LONG 073 37 53)											
SEP., 1973 17...	20	11	.4	1.1	.00	117	83	24	208	7.4	15.0
01360700 - VALATIE KILL NEAR NORTH CHATHAM NY (LAT 42 27 42 LONG 073 38 37)											
SEP., 1973 17...	25	16	.4	1.4	.00	144	99	29	256	7.6	15.5
01361250 - TAGHANIC CREEK AT CRARYVILLE NY (LAT 42 10 10 LONG 073 34 53)											
SEP., 1973 13...	19	7.0	.4	2.6	.00	106	74	28	195	7.3	17.0
01361310 - LOOMIS CREEK NEAR CLAVERACK NY (LAT 42 11 43 LONG 073 44 21)											
SEP., 1973 13...	31	5.5	.4	1.7	.00	154	120	28	263	7.8	15.0
01361465 - FOX CREEK NEAR PRESTON HOLLOW NY (LAT 42 27 46 LONG 074 10 53)											
AUG., 1973 08...	10	5.0	.1	.00	.00	84	68	9	152	7.9	23.0
01361480 - CATSKILL CREEK TRIBUTARY AT MEDUSA NY (LAT 42 26 11 LONG 074 09 08)											
AUG., 1973 08...	13	12	.1	.14	.00	118	90	15	215	7.5	21.0
01361550 - TENMILE CREEK AT MEDUSA NY (LAT 42 26 10 LONG 074 07 58)											
AUG., 1973 08...	8.2	14	.1	.20	.00	79	51	10	146	7.4	21.0
01361560 - EIGHTMILE CREEK AT MEDUSA NY (LAT 42 26 07 LONG 074 07 24)											
AUG., 1973 08...	8.0	8.6	.2	.00	.00	90	71	12	160	7.8	20.0
01361760 - WOLF FLY CREEK AT SOUTH WESTERLO NY (LAT 42 26 46 LONG 074 01 52)											
AUG., 1973 08...	12	13	.1	.18	.00	111	85	18	200	7.8	21.0
01361900 - SHINGLE KILL AT CAIRO NY (LAT 42 18 22 LONG 074 00 15)											
SEP., 1973 13...	10	16	.2	.36	.00	74	37	9	137	7.2	12.5
01362155 - PREECHEY HOLLOW BROOK NEAR COPAKE NY (LAT 42 04 04 LONG 073 31 53)											
SEP., 1973 13...	10	1.0	.3	.13	.00	131	120	8	240	7.8	14.5
01362156 - NOSTER KILL NEAR COPAKE NY (LAT 42 04 04 LONG 073 31 53)											
SEP., 1973 13...	16	8.5	.2	1.5	.00	215	200	19	394	8.2	14.5
01362168 - FALL KILL NEAR ELIZAVILLE NY (LAT 42 00 56 LONG 073 43 59)											
SEP., 1973 13...	17	6.5	.2	.15	.00	91	63	15	157	7.5	13.0
01362180 - DOOVE KILL AT MANORTON NY (LAT 42 05 03 LONG 073 47 52)											
SEP., 1973 13...	21	4.0	.2	.53	.00	87	62	20	150	7.7	12.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
HUDSON RIVER BASIN--Continued												
01362500 - ESOPUS CREEK AT COLDBROOK NY (LAT 42 00 45 LONG 074 16 10)												
AUG., 1973 15...	1330	480	2.8	--	--	6.3	1.1	2.0	.6	16	0	13
01368495 - INDIGOT CREEK TRIBUTARY NEAR MOUNT HOPE NY (LAT 41 25 16 LONG 075 31 08)												
JULY, 1973 01...	1200	69	4.0	--	--	12	1.7	2.6	1.1	22	0	18
01369000 - POCHUCK CREEK NEAR PINE ISLAND NY (LAT 41 16 30 LONG 074 28 20)												
APR., 1973 05...	1130	820	4.4	320	0	24	7.3	4.7	.9	82	0	67
JULY 01...	1635	887	6.2	--	--	20	5.5	3.0	1.3	73	0	60
01369500 - QUAKER CREEK AT FLORIDA NY (LAT 41 20 20 LONG 074 21 45)												
APR., 1973 05...	1215	95	3.6	340	40	16	4.6	4.5	1.4	44	0	36
JULY 01...	1400	100	3.9	--	--	16	3.8	3.5	1.7	49	0	40
01370836 - DWAAR KILL NEAR SEARSVILLE NY (LAT 41 35 14 LONG 074 16 14)												
JULY, 1973 01...	1000	225	4.5	--	--	11	1.7	2.9	1.3	28	0	23
01372065 - CASPER CREEK NEAR WAPPINGERS FALLS NY (LAT 41 37 54 LONG 073 55 40)												
OCT., 1972 02...	1130	3.8	8.3	--	--	81	28	42	4.6	234	0	192
JUNE, 1973 30...	1050	242	4.7	3200	380	23	4.9	11	2.0	73	0	60
01372200 - WAPPINGER CREEK NEAR CLINTON CORNERS NY (LAT 41 48 55 LONG 073 45 50)												
OCT., 1972 04...	1115	17	4.6	--	--	39	13	6.3	1.4	159	0	130
JUNE, 1973 30...	1545	7450	5.0	2700	360	17	3.5	6.6	1.8	49	0	40
01372300 - LITTLE WAPPINGER CREEK AT SALT POINT NY (LAT 41 48 20 LONG 073 47 35)												
OCT., 1972 04...	1230	1.3	4.4	--	--	35	6.3	5.6	1.6	110	0	90
JUNE, 1973 30...	1630	1120	5.3	3500	500	11	2.0	2.5	1.3	28	0	23
01376570 - NEW CITY BROOK NEAR NEW CITY NY (LAT 41 10 09 LONG 073 58 46)												
OCT., 1972 05...	1100	2.2	9.5	--	--	38	6.6	16	1.4	82	0	67
HACKENSACK RIVER BASIN												
01376800 - HACKENSACK RIVER AT WEST NYACK NY (LAT 41 05 44 LONG 073 57 52)												
OCT., 1972 05...	1215	18	.9	--	--	28	4.6	15	1.6	81	0	66
01377180 - PASCACK BROOK AT SPRING VALLEY NY (LAT 41 06 45 LONG 074 02 00)												
OCT., 1972 05...	1400	.07	12	--	--	83	15	17	2.4	253	0	208

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
HUDSON RIVER BASIN--Continued											
01362500 - ESOPUS CREEK AT COLDBROOK NY (LAT 42 00 45 LONG 074 16 10)											
AUG., 1973 15...	6.7	2.1	.1	.31	.00	31	20	7	53	6.9	16.0
01368495 - INDIGOT CREEK TRIBUTARY NEAR MOUNT HOPE NY (LAT 41 25 16 LONG 075 31 08)											
JULY, 1973 01...	17	3.0	.2	.13	.02	53	37	19	83	6.4	--
01369000 - POCHUCK CREEK NEAR PINE ISLAND NY (LAT 41 16 30 LONG 074 28 20)											
APR., 1973 05...	18	8.0	.2	.40	--	110	90	23	190	7.7	7.0
JULY 01...	12	3.8	.2	.14	.01	89	73	13	156	7.6	--
01369500 - QUAKER CREEK AT FLORIDA NY (LAT 41 20 20 LONG 074 21 45)											
APR., 1973 05...	22	7.0	.2	1.4	--	87	59	23	144	7.5	8.0
JULY 01...	15	3.8	.3	.79	.01	76	56	15	133	7.1	--
01370836 - DWAAR KILL NEAR SEARSVILLE NY (LAT 41 35 14 LONG 074 16 14)											
JULY, 1973 01...	9.8	3.2	.2	.29	.00	50	34	12	85	6.7	--
01372065 - CASPER CREEK NEAR WAPPINGERS FALLS NY (LAT 41 37 54 LONG 073 55 40)											
OCT., 1972 02...	54	74	.2	1.8	--	407	290	93	699	8.0	11.0
JUNE, 1973 30...	21	16	.2	.69	.01	122	78	18	216	7.3	19.0
01372200 - WAPPINGER CREEK NEAR CLINTON CORNERS NY (LAT 41 48 55 LONG 073 45 50)											
OCT., 1972 04...	22	11	.1	.40	--	177	150	20	316	8.2	13.0
JUNE, 1973 30...	13	10	.2	1.1	.01	86	57	17	150	7.2	--
01372300 - LITTLE WAPPINGER CREEK AT SALT POINT NY (LAT 41 48 20 LONG 073 47 35)											
OCT., 1972 04...	23	7.5	.1	.30	--	139	110	23	240	8.0	14.0
JUNE, 1973 30...	11	2.7	.2	.49	.00	52	36	13	85	6.9	19.0
01376570 - NEW CITY BROOK NEAR NEW CITY NY (LAT 41 10 09 LONG 073 58 46)											
OCT., 1972 05...	23	37	.1	2.3	--	182	120	55	321	7.8	12.0
HACKENSACK RIVER BASIN											
01376800 - HACKENSACK RIVER AT WEST NYACK NY (LAT 41 05 44 LONG 073 57 52)											
OCT., 1972 05...	23	27	.1	.60	--	143	89	22	256	7.6	13.0
01377100 - PASCACK BROOK AT SPRING VALLEY NY (LAT 41 06 45 LONG 074 02 00)											
OCT., 1972 05...	36	35	.2	.40	--	--	270	61	543	7.8	15.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
PASSAIC RIVER BASIN												
01387450 - MAHWAH RIVER NEAR SUFFERN, N. Y. (LAT 41 08 27 LONG 074 07 01)												
OCT., 1972 05...	0930	1.2	5.6	--	--	48	15	15	1.4	163	0	134
DELAWARE RIVER BASIN												
01426000 - OQUAGA CREEK AT DEPOSIT, N. Y. (LAT 42 03 31 LONG 075 25 42)												
APR., 1973 05...	1025	1170	3.4	670	130	5.0	1.2	2.1	.8	8	0	7
SUSQUEHANNA RIVER BASIN												
01508802 - FACTORY BROOK AT HOMER NY (LAT 42 38 36 LONG 076 10 41)												
AUG., 1973 31...	1415	3.0	1.8	250	20	47	11	3.4	1.3	166	0	136
01508905 - DRY CREEK AT CORTLAND NY (LAT 42 36 30 LONG 076 13 30)												
SEP., 1973 01...	1015	.21	3.4	130	10	37	5.4	4.7	1.0	117	0	96
01508910 - BLUE CREEK NEAR CORTLAND NY (LAT 42 37 25 LONG 076 12 53)												
AUG., 1973 31...	1505	.90	3.2	4200	130	33	5.4	3.9	1.4	114	0	94
01508913 - BLUE CREEK AT CORTLAND NY (LAT 42 36 15 LONG 076 12 56)												
SEP., 1973 01...	1120	.22	4.6	270	10	40	6.1	3.5	1.2	133	0	109
01508915 - DRY CREEK BELOW BLUE CREEK AT CORTLAND NY (LAT 42 36 06 LONG 076 12 50)												
SEP., 1973 01...	1015	.20	2.8	710	70	43	6.0	4.3	1.4	138	0	113
01508918 - DRY CREEK ABOVE CORTLAND NY (LAT 42 35 58 LONG 076 12 14)												
SEP., 1973 01...	1315	.29	3.7	390	10	42	5.0	4.7	1.3	130	0	107
01510000 - OTSELIC RIVER AT CINCINNATUS, N. Y. (LAT 42 32 30 LONG 075 54 00)												
NOV., 1972 09...	1430	1420	3.7	630	130	10	1.7	1.5	1.5	21	0	17
01513500 - SUSQUEHANNA R AT JOHNSON CITY NY (LAT 42 05 30 LONG 076 03 25)												
NOV., 1972 09...	1630	45600	3.6	910	250	11	2.0	2.4	1.9	25	0	21
01520500 - TIOGA RIVER AT LINDLEY, N. Y. (LAT 42 01 44 LONG 077 07 57)												
SEP., 1973 05...	1445	175	--	--	--	--	--	--	--	61	0	49
ALLEGHENY RIVER BASIN												
03010950 - TUNUNGWANT CREEK AT TUNA CREEK NY (LAT 41 58 37 LONG 078 37 30)												
MAR., 1973 13...	1600	--	4.4	--	--	13	3.1	24	1.0	23	0	19
STREAMS TRIBUTARY TO NIAGARA RIVER												
04218518 - ELLICOTT CREEK BELOW WILLIAMSVILLE, N.Y. (LAT 42 58 40 LONG 078 45 50)												
MAR., 1973 18...	1430	1200	4.0	760	70	45	6.9	12	3.7	109	0	89
STREAMS TRIBUTARY TO LAKE ONTARIO												
04225000 - CANASERAGA CREEK NEAR DANSVILLE, N.Y. (LAT 42 33 40 LONG 077 42 55)												
MAR., 1973 17...	1415	2560	4.4	210	0	40	4.3	3.6	3.0	94	0	77

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
PASSAIC RIVER BASIN											
01387450 - MAHWAH RIVER NEAR SUFFERN, N. Y. (LAT 41 08 27 LONG 074 07 01)											
OCT., 1972											
05...	26	30	.1	.20	--	222	180	48	390	8.1	12.0
DELAWARE RIVER BASIN											
01426000 - OQUAGA CREEK AT DEPOSIT, N. Y. (LAT 42 03 31 LONG 075 25 42)											
APR., 1973											
05...	14	2.5	.2	.30	--	35	19	13	51	6.2	1.5
SUSQUEHANNA RIVER BASIN											
01508802 - FACTORY BROOK AT HOMER NY (LAT 42 38 36 LONG 076 10 41)											
AUG., 1973											
31...	15	5.5	.3	2.3	.02	177	160	26	314	7.8	22.0
01508905 - DRY CREEK AT CORTLAND NY (LAT 42 36 30 LONG 076 13 30)											
SEP., 1973											
01...	14	7.2	.3	1.2	.01	136	120	19	240	8.1	15.0
01508910 - BLUE CREEK NEAR CORTLAND NY (LAT 42 37 25 LONG 076 12 53)											
AUG., 1973											
31...	11	5.4	.3	.06	.00	120	110	11	214	8.2	20.0
01508913 - BLUE CREEK AT CORTLAND NY (LAT 42 36 15 LONG 076 12 56)											
SEP., 1973											
01...	12	4.5	.3	.53	.01	140	130	16	247	7.8	18.0
01508915 - DRY CREEK BELOW BLUE CREEK AT CORTLAND NY (LAT 42 36 06 LONG 076 12 50)											
SEP., 1973											
01...	13	6.9	.3	1.0	.01	150	130	19	267	7.8	19.0
01508918 - DRY CREEK ABOVE CORTLAND NY (LAT 42 35 58 LONG 076 12 16)											
SEP., 1973											
01...	14	7.5	.5	1.8	.02	151	130	23	266	7.8	20.0
01510000 - OTSELIC RIVER AT CINCINNATUS, N. Y. (LAT 42 32 30 LONG 075 54 08)											
NOV., 1972											
09...	16	3.5	.0	.60	--	52	32	15	79	7.2	6.0
01513500 - SUSQUEHANNA R AT JOHNSON CITY NY (LAT 42 05 30 LONG 076 03 25)											
NOV., 1972											
09...	20	5.0	.0	.50	--	62	36	15	88	7.1	8.0
01520500 - TIOGA RIVER AT LINDLEY, N. Y. (LAT 42 01 46 LONG 077 07 57)											
SEP., 1973											
05...	--	14	--	--	--	--	--	--	256	7.5	27.5
ALLEGHENY RIVER BASIN											
03010958 - TUNUNGWANT CREEK AT TUNA CREEK NY (LAT 41 58 37 LONG 078 37 30)											
MAR., 1973											
13...	14	43	.2	.40	--	116	45	26	230	6.5	4.0
STREAMS TRIBUTARY TO NIAGARA RIVER											
04218518 - ELLICOTT CREEK BELOW WILLIAMSVILLE, N.Y. (LAT 42 58 40 LONG 078 45 50)											
MAR., 1973											
18...	49	18	.1	.50	--	195	140	51	318	7.8	1.0
STREAMS TRIBUTARY TO LAKE ONTARIO											
04225000 - CANASERAGA CREEK NEAR DANSVILLE, N.Y. (LAT 42 33 40 LONG 077 42 55)											
MAR., 1973											
17...	28	19	.1	1.6	--	156	120	40	210	7.9	5.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04232423 - PLUM POINT CREEK AT HIMROD NY (LAT 42 35 26 LONG 076 57 18)												
AUG., 1973												
14...	1400	E.10	7.4	--	--	52	13	12	2.5	180	0	148
04232425 - PLUM POINT CREEK AT PLUM POINT NY (LAT 42 35 45 LONG 076 55 15)												
AUG., 1973												
14...	1540	E.10	6.6	--	--	47	12	230	3.3	216	0	177
04234000 - FALL CREEK NEAR ITHACA, N. Y. (LAT 42 27 12 LONG 076 28 23)												
DEC., 1972												
01...	1330	250	4.0	130	0	38	6.5	6.3	1.3	108	0	89
04234396 - WEST RIVER AT VALLEY VIEW NY (LAT 42 44 20 LONG 077 15 26)												
APR., 1973												
24...	1100	9.2	3.5	120	80	90	19	11	2.8	299	0	245
04234400 - WEST RIVER NEAR MIDDLESEX NY (LAT 42 41 06 LONG 077 17 19)												
APR., 1973												
24...	0930	16	3.2	270	10	75	16	17	4.7	284	0	233
04249050 - CATFISH CREEK AT NEW HAVEN NY (LAT 43 29 00 LONG 076 19 39)												
SEP., 1973												
11...	0900	165	3.6	130	50	30	9.4	10	1.6	121	0	99
04249060 - LITTLE SALMON RIVER AT TEXAS NY (LAT 43 30 41 LONG 076 15 11)												
SEP., 1973												
11...	0945	14	3.9	180	50	21	7.8	7.2	1.2	85	0	70
04250990 - WOODHULL CREEK NEAR FORESTPORT NY (LAT 43 27 48 LONG 075 10 22)												
SEP., 1973												
10...	1130	66	6.0	320	50	3.4	.7	1.2	.4	9	0	7
04250998 - ALDER CREEK AT ALDER CREEK NY (LAT 43 25 28 LONG 075 13 45)												
SEP., 1973												
10...	1050	334	6.4	170	50	38	2.2	1.3	.4	127	0	104
04252395 - CUMMINGS CREEK NEAR HAWKINSVILLE NY (LAT 43 30 22 LONG 075 13 20)												
SEP., 1973												
10...	1300	679	7.8	350	50	10	1.3	1.1	.4	31	0	25
04252400 - CUMMINGS CREEK AT HAWKINSVILLE NY (LAT 43 29 56 LONG 075 16 24)												
SEP., 1973												
10...	1330	28	7.5	330	30	6.7	1.1	1.3	.4	20	0	16
04252505 - MILL CREEK AT BOONVILLE NY (LAT 43 28 41 LONG 075 20 52)												
SEP., 1973												
10...	1500	115	5.7	140	30	38	2.8	2.7	.8	125	0	103
04253005 - MOOSE CREEK NEAR TALCOTTVILLE NY (LAT 43 30 22 LONG 075 21 10)												
SEP., 1973												
10...	1420	637	3.5	110	20	32	3.9	2.5	.9	103	2	88
04260100 - BLACK R AT STATE HIGHWAY 3 AT WATERTOWN NY (LAT 43 58 28 LONG 075 52 30)												
OCT., 1972												
25...	1100	--	6.1	440	20	12	1.1	2.8	.8	35	0	29
NOV.												
29...	1300	--	5.7	370	0	16	1.4	2.0	1.2	43	0	35

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued											
04232423 - PLUM POINT CREEK AT HIMROD NY (LAT 42 35 26 LONG 076 57 18)											
AUG., 1973											
14...	48	5.0	.4	.96	.00	233	170	22	376	8.2	20.0
04232425 - PLUM POINT CREEK AT PLUM POINT NY (LAT 42 35 45 LONG 076 55 15)											
AUG., 1973											
14...	71	280	.5	.11	.00	757	150	0	1340	7.9	22.0
04234000 - FALL CREEK NEAR ITHACA, N. Y. (LAT 42 27 12 LONG 076 28 23)											
DEC., 1972											
01...	22	12	.1	1.5	--	150	120	31	265	8.3	1.0
04234396 - WEST RIVER AT VALLEY VIEW NY (LAT 42 44 20 LONG 077 15 26)											
APR., 1973											
24...	55	18	.1	1.0	--	352	300	58	588	7.5	13.0
04234400 - WEST RIVER NEAR MIDDLESEX NY (LAT 42 41 06 LONG 077 17 19)											
APR., 1973											
24...	48	18	.1	.30	--	323	250	20	539	7.7	13.5
04249050 - CATFISH CREEK AT NEW HAVEN NY (LAT 43 29 00 LONG 076 19 39)											
SEP., 1973											
11...	13	18	.3	.09	.00	146	110	14	273	7.9	16.0
04249060 - LITTLE SALMON RIVER AT TEXAS NY (LAT 43 30 41 LONG 076 15 11)											
SEP., 1973											
11...	12	11	.4	.24	.00	107	85	15	196	7.8	17.0
04250990 - WOODHULL CREEK NEAR FORESTPORT NY (LAT 43 27 48 LONG 075 10 22)											
SEP., 1973											
10...	7.0	.7	.4	.14	.00	25	11	4	34	6.6	12.0
04250998 - ALDER CREEK AT ALDER CREEK NY (LAT 43 25 28 LONG 075 13 45)											
SEP., 1973											
10...	7.1	1.0	.4	.21	.00	120	100	0	217	8.0	9.0
04252395 - CUMMINGS CREEK NEAR HAWKINSVILLE NY (LAT 43 30 22 LONG 075 13 20)											
SEP., 1973											
10...	8.5	1.0	.4	.05	.00	46	30	5	67	7.2	15.5
04252400 - CUMMINGS CREEK AT HAWKINSVILLE NY (LAT 43 29 56 LONG 075 16 24)											
SEP., 1973											
10...	7.5	.9	.4	.08	.01	36	21	5	52	7.1	12.5
04252505 - MILL CREEK AT BOONVILLE NY (LAT 43 28 41 LONG 075 20 52)											
SEP., 1973											
10...	11	2.1	.4	.20	.00	126	110	4	239	8.3	18.0
04253005 - MOOSE CREEK NEAR TALCOTTVILLE NY (LAT 43 30 22 LONG 075 21 10)											
SEP., 1973											
10...	12	2.4	.4	.37	.00	112	96	8	201	8.4	12.0
04260100 - BLACK R AT STATE HIGHWAY 3 AT WATERTOWN NY (LAT 43 58 28 LONG 075 52 30)											
OCT., 1972											
25...	12	1.7	.0	.16	.00	55	34	5	84	7.6	--
NOV.											
29...	13	2.0	.0	.45	.00	65	46	11	101	7.5	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER												
04264350 - SOUTH BRANCH GRASS RIVER AT NEW BRIDGE NY (LAT 44 17 12 LONG 074 58 35)												
SEP.. 1973 13...	1310	75	10	--	--	5.0	1.4	2.4	.5	15	0	12
04270360 - STANDISH BROOK AT STANDISH NY (LAT 44 41 28 LONG 073 57 13)												
SEP.. 1973 11...	1040	1.6	13	680	10	4.0	1.5	2.7	.5	19	0	16
04270370 - SEPARATOR BROOK AT LYON MOUNTAIN NY (LAT 44 43 40 LONG 073 54 30)												
SEP.. 1973 11...	0940	1.0	11	250	10	3.1	1.0	1.6	.4	15	0	12
04270945 - GREAT CHAZY RIVER AT MOOERS FORKS NY (LAT 44 57 24 LONG 073 37 59)												
SEP.. 1973 13...	1055	8.5	3.0	--	--	14	3.8	2.4	.8	54	0	44
04270955 - N BR GREAT CHAZY RIVER AT ELLENBURG CENTER NY (LAT 44 51 55 LONG 073 53 38)												
SEP.. 1973 13...	1225	4.9	7.9	--	--	26	6.7	3.2	1.2	88	0	72
04270960 - NORTH BRANCH GREAT CHAZY RIVER AT ELLENBURG NY (LAT 44 53 30 LONG 073 50 28)												
SEP.. 1973 13...	0930	6.3	5.5	--	--	24	6.1	3.4	1.3	88	0	72
04270995 - NORTH BRANCH GREAT CHAZY RIVER AT MOOER FORKS NY (LAT 44 57 23 LONG 073 38 32)												
SEP.. 1973 12...	1310	18	3.4	--	--	20	5.2	4.0	1.4	73	0	60
04271800 - LITTLE CHAZY RIVER NEAR CHAZY NY (LAT 44 50 46 LONG 073 27 24)												
SEP.. 1973 12...	1150	2.7	2.7	--	--	30	11	3.3	2.0	139	0	114
04271930 - RAY BROOK AT EAST BEEKMANTOWN NY (LAT 44 45 11 LONG 073 27 53)												
SEP.. 1973 12...	1045	.87	6.5	320	10	44	22	8.2	2.3	248	0	203
04273800 - LITTLE AUSABLE RIVER NEAR VALCOUR NY (LAT 44 35 39 LONG 073 29 48)												
SEP.. 1973 12...	0915	9.4	9.9	500	40	27	10	5.9	2.0	119	0	98
04276208 - BOUQUET RIVER AT ELIZABETHTOWN NY (LAT 44 12 45 LONG 073 35 03)												
SEP.. 1973 11...	1445	13	12	150	10	9.4	2.0	3.8	.4	33	0	27
04276215 - THE BRANCH AT ELIZABETHTOWN NY (LAT 44 13 14 LONG 073 36 53)												
SEP.. 1973 11...	1315	5.8	16	400	10	14	3.3	3.7	.3	49	0	40
04276900 - ENGLISH BROOK AT LAKE GEORGE NY (LAT 43 26 23 LONG 073 43 25)												
SEP.. 1973 12...	1455	.49	11	100	0	21	4.2	16	1.2	47	0	39
04279010 - TROUT BROOK AT TICONDEROGA NY (LAT 43 50 46 LONG 073 26 28)												
SEP.. 1973 05...	1725	3.6	7.4	2400	280	33	6.5	7.3	1.4	120	0	98
04280400 - METTAWEE RIVER AT GRANVILLE NY (LAT 43 24 25 LONG 073 15 45)												
SEP.. 1973 12...	1150	19	3.4	150	10	35	5.8	5.0	1.6	120	0	98
04280600 - BIG CREEK AT SMITHS BASIN NY (LAT 43 21 23 LONG 073 29 16)												
SEP.. 1973 12...	1325	.66	5.0	390	50	55	22	16	5.1	208	0	171

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER--Continued											
04264350 - SOUTH BRANCH GRASS RIVER AT NEW BRIDGE NY (LAT 44 17 12 LONG 074 58 35)											
SEP., 1973 13...	10	2.0	.3	.26	.00	40	18	6	51	6.8	14.5
04270360 - STANDISH BROOK AT STANDISH NY (LAT 44 41 28 LONG 073 57 13)											
SEP., 1973 11...	4.5	.7	.2	.19	.00	37	16	1	43	7.1	13.5
04270370 - SEPARATOR BROOK AT LYON MOUNTAIN NY (LAT 44 43 40 LONG 073 54 30)											
SEP., 1973 11...	3.4	.3	.2	.30	.00	30	12	0	35	7.0	11.0
04270945 - GREAT CHAZY RIVER AT MOOERS FORKS NY (LAT 44 57 24 LONG 073 37 59)											
SEP., 1973 13...	7.5	2.6	.2	.05	.00	61	51	6	111	7.6	14.5
04270955 - N BR GREAT CHAZY RIVER AT ELLENBURG CENTER NY (LAT 44 51 55 LONG 073 53 38)											
SEP., 1973 13...	11	4.4	.2	.79	.00	107	93	20	184	7.5	14.0
04270960 - NORTH BRANCH GREAT CHAZY RIVER AT ELLENBURG NY (LAT 44 53 30 LONG 073 50 28)											
SEP., 1973 13...	11	4.7	.2	.83	.00	103	85	13	184	7.5	11.5
04270995 - NORTH BRANCH GREAT CHAZY RIVER AT MOOER FORKS NY (LAT 44 57 23 LONG 073 38 32)											
SEP., 1973 12...	13	5.5	.2	.21	.00	90	71	11	162	7.5	16.0
04271800 - LITTLE CHAZY RIVER NEAR CHAZY NY (LAT 44 50 46 LONG 073 27 24)											
SEP., 1973 12...	13	3.7	.2	.35	.00	136	120	6	253	7.6	13.0
04271930 - RAY BROOK AT EAST BEEKMANTOWN NY (LAT 44 45 11 LONG 073 27 53)											
SEP., 1973 12...	21	9.0	.3	.20	.00	236	200	0	432	8.2	12.0
04273800 - LITTLE AUSABLE RIVER NEAR VALCOUR NY (LAT 44 35 39 LONG 073 29 48)											
SEP., 1973 12...	12	7.0	.3	.72	.00	136	110	11	239	7.7	15.0
04276208 - BOUQUET RIVER AT ELIZABETHTOWN NY (LAT 44 12 45 LONG 073 35 03)											
SEP., 1973 11...	7.9	4.5	.2	.09	.00	57	32	5	86	7.4	15.5
04276215 - THE BRANCH AT ELIZABETHTOWN NY (LAT 44 13 14 LONG 073 36 53)											
SEP., 1973 11...	7.6	4.1	.2	.05	.00	74	49	8	110	7.4	16.0
04276900 - ENGLISH BROOK AT LAKE GEORGE NY (LAT 43 26 23 LONG 073 43 25)											
SEP., 1973 12...	10	36	.3	.29	.01	124	70	31	235	7.4	13.0
04279010 - TROUT BROOK AT TICONDEROGA NY (LAT 43 50 46 LONG 073 26 28)											
SEP., 1973 05...	9.5	9.9	.4	.18	.00	136	110	11	237	7.8	26.0
04280400 - METTAWEE RIVER AT GRANVILLE NY (LAT 43 24 25 LONG 073 15 45)											
SEP., 1973 12...	14	7.5	.2	.89	.01	136	110	13	248	8.0	16.0
04280600 - BIG CREEK AT SMITHS BASIN NY (LAT 43 21 23 LONG 073 29 16)											
SEP., 1973 12...	68	17	.3	.29	.01	292	230	57	398	7.7	16.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
01336600 - MOHAWK RIVER (CANAL SECT) AT ROME NY (LAT 43 11 58 LONG 075 23 24)					
OCT., 1972					
25...	1600	0	540	10	<.5
MAY , 1973					
31...	1400	10	100	8	.5
SEP.					
19...	1500	0	130	5	<.5
01337450 - ORISKANY CREEK AT WALESVILLE NY (LAT 43 06 56 LONG 073 21 59)					
MAY , 1973					
31...	1500	0	0	2400	<.5
SEP.					
19...	1600	0	10	2	<.5
01338600 - MOHAWK RIVER ABOVE WHITESBORO NY (LAT 43 08 23 LONG 075 18 12)					
OCT., 1972					
25...	1500	10	140	4	<.5
JUNE, 1973					
27...	1500	0	70	3	1.7
01341150 - MOHAWK RIVER AT LEALAND STREET AT UTICA NY (LAT 43 06 28 LONG 075 12 41)					
SEP., 1973					
19...	1000	0	50	6	<.5
01342602 - MOHAWK RIVER NEAR UTICA NY (LAT 43 05 26 LONG 075 09 29)					
OCT., 1972					
25...	1400	10	90	1900	<.5
MAY , 1973					
31...	1200	0	0	1500	<.5
SEP.					
19...	1000	1	50	14	<.5
01342755 - MOHAWK RIVER AT HERKIMER NY (LAT 43 01 01 LONG 074 59 48)					
JUNE, 1973					
27...	1300	0	20	5	12
01346000 - WEST CANADA CREEK AT KAST BRIDGE NY (LAT 43 04 25 LONG 074 59 24)					
OCT., 1972					
26...	1330	0	0	2	<.5
MAY , 1973					
30...	1200	0	0	3800	<.5
SEP.					
19...	1300	0	10	3	<.5
01358001 - HUDSON RIVER AT TROY NY (LAT 42 45 05 LONG 073 41 10)					
JUNE, 1973					
26...	--	0	200	4	<.5
01496380 - CANADARAGO L NR RICHFIELD SPRINGS NY (LAT 42 49 15 LONG 075 00 42)					
MAY , 1973					
31...	1100	10	0	0	<.5
SEP.					
19...	1100	0	0	3	<.5
01502632 - SUSQUEHANNA RIVER AT BAINBRIDGE NY (LAT 42 17 29 LONG 075 28 36)					
MAY , 1973					
07...	1600	--	0	2	<.5

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
01505000 - CHENANGO RIVER AT SHERBURNE NY (LAT 42 40 43 LONG 075 30 39)					
JUNE, 1973					
04...	1215	--	0	0	<.5
01505580 - CHENAGO RIVER AT NORWICH NY (LAT 42 28 21 LONG 075 32 44)					
OCT., 1972					
03...	1600	--	0	6	<.5
JUNE, 1973					
04...	1320	--	0	2	<.5
01509030 - TIOUGHNIOGA RIVER AT BLODGETT MILLS NY (LAT 42 34 05 LONG 076 07 18)					
JUNE, 1973					
04...	1020	--	0	0	550
01513500 - SUSQUEHANNA R AT JOHNSON CITY NY (LAT 42 05 30 LONG 076 03 25)					
OCT., 1972					
03...	1410	--	0	6	<.5
MAY , 1973					
08...	1735	--	80	3	<.5
01513831 - SUSQUEHANNA RIVER AT OWEGO NY (LAT 42 06 01 LONG 076 15 39)					
OCT., 1972					
03...	0950	--	20	4	<.5
MAY , 1973					
08...	0935	--	0	2	<.5
01514937 - SUSQUEHANNA RIVER AT SMITHBORO NY (LAT 42 01 41 LONG 076 23 07)					
MAY , 1973					
08...	1045	--	0	2	<.5
01520500 - TIOGA RIVER AT LINDLEY NY (LAT 42 01 44 LONG 077 07 57)					
JUNE, 1973					
25...	1155	0	10	2	<.5
01524525 - CANISTEO RIVER BELOW HORNELL NY (LAT 42 17 58 LONG 077 39 03)					
JUNE, 1973					
25...	1305	0	0	--	<.5
01529552 - COHOCTON RIVER AT CAMPBELL NY (LAT 42 13 37 LONG 077 11 56)					
JUNE, 1973					
25...	1015	0	0	--	<.5
01529950 - CHEMUNG RIVER AT CORNING NY (LAT 42 08 52 LONG 077 03 40)					
JUNE, 1973					
25...	1105	0	0	--	<.5
01530310 - CHEMUNG RIVER AT FITCH BRIDGE NY (LAT 42 04 57 LONG 076 52 01)					
OCT., 1972					
03...	1115	--	0	6	<.5
MAY , 1973					
08...	1235	--	0	7	<.5
01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)					
OCT., 1972					
03...	1230	--	10	6	<.5
MAY , 1973					
08...	1120	--	0	4	<.5

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
03010844 - ALLEGHENY RIVER AT ALLEGANY NY (LAT 42 05 26 LONG 078 30 09)					
JULY, 1973					
16...	1750	0	20	4	<.5
SEP.					
12...	1535	0	10	2	<.5
03010870 - ALLEGHENY RIVER AT VANDALIA NY (LAT 42 05 38 LONG 078 34 27)					
JULY, 1973					
16...	1705	10	10	2	<.5
SEP.					
12...	1510	0	10	4	<.5
03010958 - TUNUNGWANT CREEK AT TUNA CREEK NY (LAT 41 58 37 LONG 078 37 30)					
MAY , 1973					
02...	1400	0	0	10	<.5
JULY					
16...	1610	10	20	5	<.5
03011020 - ALLEGHENY RIVER AT SALAMANCA NY (LAT 42 09 23 LONG 078 42 56)					
JULY, 1973					
16...	1505	0	20	4	1.0
SEP.					
12...	1330	0	0	3	<.5
03014500 - CHADAKOIN RIVER AT FALCONER NY (LAT 42 06 45 LONG 079 14 15)					
JULY, 1973					
16...	1115	10	70	12	<.5
SEP.					
12...	1025	10	360	26	<.5
03014590 - CASSADAGA CREEK NEAR JAMESTOWN NY (LAT 42 05 48 LONG 079 09 25)					
JULY, 1973					
16...	1150	10	50	21	<.5
SEP.					
12...	1050	14	110	49	<.5
03014600 - CONEWANGO CREEK AT FREWSBURG NY (LAT 42 04 11 LONG 079 09 30)					
MAY , 1973					
02...	1155	0	0	12	<.5
JULY					
16...	1220	0	30	10	<.5
03014670 - CONEWANGO CREEK AT FENTONVILLE NY (LAT 42 01 23 LONG 079 09 36)					
MAY , 1973					
02...	1220	0	0	10	<.5
JULY					
16...	1255	0	20	440	9.0
04213378 - CANADAWAY CREEK AT DUNKIRK NY (LAT 42 28 32 LONG 079 21 56)					
OCT., 1972					
18...	1250	--	0	5	<.5
JULY, 1973					
17...	1205	0	10	4	20
04213450 - BUTTERMILK CREEK NEAR SPRINGVILLE NY (LAT 42 28 50 LONG 078 40 32)					
OCT., 1972					
18...	1540	--	0	3	<.5
JULY, 1973					
17...	1420	10	0	3	1.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04213500 - CATTARAUGUS CREEK AT GOWANDA NY (LAT 42 28 05 LONG 078 56 30)					
OCT., 1972					
12...	1405	--	0	5	<.5
JULY, 1973					
17...	1325	0	20	4	1.0
04214020 - CATTARAUGUS CREEK AT IRVING NY (LAT 42 34 12 LONG 079 06 45)					
OCT., 1972					
18...	1150	--	0	11	<.5
JULY, 1973					
17...	1120	0	10	4	8.0
04214240 - EIGHTEENMILE C AT HIGHLAND-ON-THE-LAKE NY (LAT 42 42 44 LONG 078 58 00)					
OCT., 1972					
18...	1050	--	0	4	<.5
JULY, 1973					
17...	1025	0	10	4	1.0
04215790 - BUFFALO RIVER AT OHIO STREET AT BUFFALO NY (LAT 42 51 42 LONG 078 52 04)					
JULY, 1973					
16...	1505	0	10	10	<.5
04216060 - NIAGARA RIVER AT BIRD ISLAND AT BUFFALO NY (LAT 42 54 53 LONG 078 54 12)					
JULY, 1973					
16...	1425	0	20	4	<.5
SEP.					
10...	1325	<1	20	1	<.5
04216080 - BLACK ROCK CANAL AT BUFFALO NY (LAT 42 54 54 LONG 078 54 10)					
JULY, 1973					
16...	1400	0	20	5	<.5
04216225 - NIAGARA RIVER AT WATER INTAKE TONAWANDA NY (LAT 42 57 02 LONG 078 55 15)					
JULY, 1973					
16...	1235	0	120	25	<.5
SEP.					
10...	1155	0	30	2	<.5
04216230 - NIAGARA RIVER AT WATER PLANT TONAWANDA NY (LAT 42 57 50 LONG 078 55 30)					
JULY, 1973					
16...	1250	0	20	5	<.5
SEP.					
10...	1215	0	0	4	<.5
04218595 - ERIE(BARGE)CANAL NEAR PENDLETON NY (LAT 43 06 57 LONG 078 44 13)					
JULY, 1973					
16...	0935	0	20	5	1.0
04218705 - ERIE(BARGE)CANAL AT ST HWY 383 AT ROCHESTER NY (LAT 43 07 23 LONG 077 38 45)					
NOV., 1972					
08...	1145	10	0	10	22
MAY , 1973					
08...	1130	10	0	7	<.5
SEP.					
24...	1150	1	10	4	<.5
04218760 - ERIE(BARGE)CANAL AT WEST BRIGHTON NY (LAT 43 06 38 LONG 077 36 58)					
NOV., 1972					
08...	1235	10	0	8	26
MAY , 1973					
08...	1100	0	0	120	<.5
SEP.					
24...	1100	1	10	10	<.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04232651 - SENECA RIVER AT WATERLOO NY (LAT 42 54 05 LONG 076 51 46)					
JUNE, 1973 07...	1100	0	0	7	<.5
SEP. 26...	1100	0	10	1800	<.5
04232707 - SENECA RIVER AT SENECA FALLS NY (LAT 42 54 18 LONG 076 49 34)					
JUNE, 1973 07...	1200	0	0	10	<.5
SEP. 26...	1200	0	10	4	<.5
04232723 - SENECA RIVER(VAN CLEEF LAKE) AT SENECA FALLS NY (LAT 42 54 54 LONG 076 47 14)					
JUNE, 1973 07...	1300	0	0	9	<.5
SEP. 26...	1300	1	10	2	<.5
04232730 - SENECA RIVER NEAR SENECA FALLS NY (LAT 42 56 20 LONG 076 45 42)					
OCT., 1972 04...	1500	2	0	5	<.5
JUNE, 1973 07...	1400	0	0	7	4.8
SEP. 26...	1400	<1	0	5	1.1
0423406084 - CAYUGA LAKE NEAR CAROGA NY (LAT 42 50 49 LONG 076 43 43)					
OCT., 1972 04...	1400	2	0	2	<.5
MAY , 1973 09...	1400	0	0	1	1.0
AUG. 29...	1300	0	10	3	<.5
042340613 - SENECA RIVER AT FREE BRIDGE CORNERS NY (LAT 42 57 46 LONG 076 44 17)					
JUNE, 1973 07...	1500	0	0	4	<.5
SEP. 26...	1500	1	0	3	<.5
0423454444 - CANANDIGUA LAKE NEAR CANANDAIGUA NY (LAT 42 50 32 LONG 077 16 42)					
AUG., 1973 25...	0900	0	0	--	<.5
04240500 - ONONDAGA LAKE OUTLET AT LONG BRANCH NY (LAT 43 07 01 LONG 076 14 44)					
MAY , 1973 16...	1600	0	20	3	8.0
SEP. 05...	1600	10	0	2	<.5
04240540 - SENECA RIVER AT BELGIUM NY (LAT 43 10 15 LONG 076 16 08)					
OCT., 1972 11...	1515	6	0	2	<.5
APR., 1973 18...	1500	0	0	0	<.5
AUG. 08...	1500	0	10	4	<.5
04242730 - FISH CREEK AT FISH CREEK LANDING NY (LAT 43 13 16 LONG 075 42 06)					
OCT., 1972 05...	1045	8	0	0	<.5
JUNE, 1973 28...	1100	10	0	1	1.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES—Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04219355 - NIAGARA R(TONAWANDA CHANNEL) AT NIAGARA FALLS NY (LAT 43 04 28 LONG 079 00 19)					
JULY, 1973					
16...	1145	0	0	3	1.0
SEP.					
10...	1125	0	0	7	<.5
04220284 - L ONTARIO AT MONROE CO WA PLANT AT ROCHESTER NY (LAT 43 16 45 LONG 077 37 01)					
AUG., 1973					
02...	1320	0	50	1	<.5
04227000 - CANASERAGA CREEK AT SHAKERS CROSSING NY (LAT 42 44 15 LONG 077 50 30)					
MAY , 1973					
01...	0925	0	0	2	<.5
04227510 - GENESEE RIVER -T GENESEO NY (LAT 42 46 37 LONG 077 50 31)					
MAY , 1973					
01...	0950	0	0	2	<.5
04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)					
MAY , 1973					
01...	1045	0	0	3	<.5
04230055 - HONEOYE CREEK AT WEST RUSH NY (LAT 42 58 40 LONG 077 41 52)					
NOV., 1972					
08...	1330	10	0	4	26
MAY , 1973					
08...	1210	10	0	4	<.5
SEP.					
24...	1415	1	10	7	.9
04230650 - GENESEE R AT BALLANTYNE BRIDGE NEAR MORTIMER NY (LAT 43 05 31 LONG 077 40 52)					
NOV., 1972					
08...	1255	10	0	6	20
SEP., 1973					
24...	1400	2	10	4	1.3
04231500 - GENESEE RIVER(STATE HIGHWAY 47)AT ROCHESTER NY (LAT 43 07 20 LONG 077 37 56)					
NOV., 1972					
08...	1210	10	0	9	21
SEP., 1973					
24...	1135	2	10	8	<.5
04232006 - GENESEE RIVER(CHARLOTTE DOCKS)AT ROCHESTER NY (LAT 43 13 26 LONG 077 36 59)					
AUG., 1973					
29...	1155	0	0	11	<.5
04232150 - LAKE ONTARIO NEAR OSWEGO NY (LAT 43 28 17 LONG 076 32 59)					
APR., 1973					
10...	1300	0	0	100	<.5
AUG.					
08...	1200	0	50	6	<.5
0423249907 - SENECA LAKE AT SALT POINT NY (LAT 42 24 25 LONG 076 53 10)					
MAY , 1973					
08...	1430	--	30	0	<.5
0423249980 - SENECA LAKE(GENEVA WTR PLT)NEAR GENEVA NY (LAT 42 48 52 LONG 076 57 24)					
OCT., 1972					
04...	1130	2	0	5	<.5
MAY , 1973					
09...	1100	0	0	4	<.5
AUG.					
29...	1100	0	20	70	<.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04243535 - ONEIDA CREEK AT SOUTH BAY NY (LAT 43 09 51 LONG 075 44 14)					
OCT., 1972					
05...	1145	0	0	0	<.5
JUNE, 1973					
28...	1200	10	0	1	<.5
04245500 - CHITTENANGO CREEK AT BRIDGEPORT NY (LAT 43 09 18 LONG 075 58 18)					
NOV., 1972					
08...	1000	10	30	780	<.5
MAY , 1973					
16...	1000	10	0	2	<.5
AUG.					
08...	1000	0	10	2	<.5
SEP.					
05...	1000	0	0	1	<.5
04246000 - ONEIDA LAKE AT BREWERTON NY (LAT 43 14 26 LONG 076 08 30)					
APR., 1973					
18...	1015	0	5	0	<.5
04247000 - OSWEGO RIVER AT HINMANSVILLE NY (LAT 43 14 54 LONG 076 21 06)					
OCT., 1972					
11...	1415	6	0	3	<.5
APR., 1973					
18...	1400	0	0	0	<.5
AUG.					
08...	1400	0	10	4	<.5
04249000 - OSWEGO RIVER AT LOCK 7 AT OSWEGO NY (LAT 43 27 06 LONG 076 30 20)					
OCT., 1972					
11...	1145	6	0	3	<.5
AUG., 1973					
08...	1100	0	10	4	.9

WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

LONG ISLAND

NASSAU COUNTY

STATION NUMBER	LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
404224073424003	N 13	73-05-29	15	120	0	3.2	6.6	50	1.3
404139073383901	N 75	73-04-19	12	690	140	14	3.1	13	2.4
405111073430201	N 36	73-04-16	21	460	200	25	10	9.5	3.0
404452073265001	N 617	73-06-05	6.0	90	130	6.6	4.8	8.4	3.8
404359073383201	N 1697	73-05-22	7.4	40	0	2.4	1.0	4.6	.5
404546073390501	N 2487	73-04-23	19	120	0	20	11	20	1.7
404402073335201	N 3129	73-06-20	9.2	50	0	16	7.0	13	1.4
404833073414601	N 3548	73-04-16	23	40	0	24	11	11	2.2
404628073383101	N 3733	73-04-23	11	20	0	3.5	1.4	5.3	.6
404228073293401	N 3893	73-05-21	11	100	320	19	4.1	20	4.4
404401073370501	N 3935	73-05-13	8.4	50	0	5.8	2.3	9.7	.7
404636073280701	N 4095	73-05-18	6.4	40	0	2.2	.3	2.6	.2
404805073303001	N 4133	73-07-19	8.5	30	150	15	5.2	24	2.3
404621073392301	N 4327	73-04-23	12	40	0	5.0	2.5	6.3	.7

DATE OF SAMPLE	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)
73-05-29	46	68	51	15	.1	2.0	.01	.08	.05	.00	192	35
73-04-19	4	3	38	20	.3	1.9	.01	.05	.02	.03	113	48
73-04-16	90	74	39	10	.3	1.5	.03	.05	.02	.02	169	104
73-06-05	5	4	20	16	.1	2.6	.00	.14	.01	.00	80	36
73-05-22	6	5	.4	6.7	.2	1.9	.00	.01	.00	.00	35	10
73-04-23	44	36	18	18	.1	18	.10	.04	.03	.00	209	95
73-06-20	9	7	25	50	.2	12	.02	.05	.00	.00	179	69
73-04-16	68	56	37	14	.3	3.6	.01	.07	.02	.00	172	105
73-04-23	12	10	.0	6.0	.1	1.6	.01	.10	.06	.70	41	15
73-05-21	7	6	43	17	.2	12	.05	.25	.00	.00	176	64
73-05-13	11	9	6.0	12	.3	4.0	.00	.01	.00	.00	68	24
73-05-18	6	5	.0	3.7	.2	.09	.01	.03	.00	.04	23	7
73-07-19	29	24	33	33	.2	2.7	.01	.64	.28	.00	148	59
73-04-23	14	11	1.0	7.5	.1	4.3	.02	.10	.05	.00	61	23

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
73-05-29	0	360	9.8	13.0	.0
73-04-19	44	185	5.3	14.0	--
73-04-16	30	260	7.5	12.0	--
73-06-05	32	150	5.9	12.0	.0
73-05-22	5	51	5.9	14.0	.0
73-04-23	59	320	7.4	12.0	.1
73-06-20	61	326	5.6	--	.0
73-04-16	49	220	7.1	12.0	--
73-04-23	5	63	6.6	13.0	.0
73-05-21	59	267	5.7	14.0	.2
73-05-13	15	107	6.3	14.0	.0
73-05-18	2	31	6.2	12.0	.0
73-07-19	35	265	6.1	13.0	.0
73-04-23	11	86	6.7	12.0	.0

CHEMICAL ANALYSES OF GROUND WATER IN NEW YORK--Continued

WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

LONG ISLAND--Continued

NASSAU COUNTY--Continued

STATION NUMBER	LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
405221073300701	N 4400	73-05-14	19	0	0	7.8	2.8	5.6	.9
404503073380701	N 5244	73-04-06	14	40	50	28	3.8	10	3.3
404120073322501	N 5259	73-05-21	8.2	880	20	5.6	2.5	11	.9
404428073315201	N 5301	73-05-01	7.6	60	0	9.3	2.7	11	.9
404246073314301	N 5302	73-05-01	6.7	80	0	2.8	.2	9.0	.3
404159073345001	N 5319	73-05-09	6.7	600	0	3.0	.3	3.4	.2
405014073373601	N 5792	73-05-22	11	10	0	15	5.5	8.0	2.0
404537073333501	N 6819	73-05-11	8.3	30	0	9.0	2.3	10	1.0
404652073372802	N 7513	73-05-10	7.8	20	0	2.5	.7	3.8	.3
404345073412001	N 7649	73-05-29	17	30	0	23	7.2	15	1.7
404511073295001	N 8454	73-05-16	6.6	30	0	.7	.2	2.8	.1
404530073301701	N 8643	73-05-16	6.6	30	0	.9	.3	3.2	.2
405420073355001	N 8962	73-08-10	22	190	160	7.1	2.9	7.0	1.6

DATE OF SAMPLE	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)
73-05-14	34	28	2.6	5.9	.2	1.6	.01	.05	.00	.03	68	31
73-04-06	16	13	46	17	.1	7.5	.01	.00	.06	.01	163	86
73-05-21	0	0	45	12	.2	.11	.01	.15	.00	.00	87	24
73-05-01	8	7	3.5	14	.2	7.6	.02	.00	.00	.00	87	34
73-05-01	20	16	2.2	4.7	.6	.80	.00	.00	.15	.00	40	8
73-05-09	9	7	5.0	4.1	.1	.08	.00	.06	.00	.00	28	9
73-05-22	26	21	26	10	.3	4.0	.00	.01	.00	.03	108	60
73-05-11	8	7	.0	14	.2	7.5	.02	.05	.00	.00	82	32
73-05-10	5	4	.0	5.0	.3	1.6	.01	.05	.00	.00	30	9
73-05-29	21	17	41	19	.2	11	.01	.05	.00	.00	183	87
73-05-16	5	4	.0	3.0	.2	.49	.01	.01	.00	.00	18	3
73-05-16	5	4	.0	3.4	.2	.89	.01	.03	.00	.00	21	3
73-08-10	35	29	2.2	6.0	.3	1.9	.00	.01	.01	.05	75	30

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
73-05-14	3	90	6.9	11.0	.0
73-04-06	72	249	6.1	15.0	.0
73-05-21	24	162	4.2	14.0	.0
73-05-01	28	132	5.5	10.5	.0
73-05-01	0	55	6.5	13.0	.0
73-05-09	1	33	6.1	13.0	.0
73-05-22	39	179	7.1	13.0	.1
73-05-11	25	126	6.1	12.0	.1
73-05-10	5	39	6.0	13.0	.0
73-05-29	70	276	6.6	13.5	.1
73-05-16	0	23	6.0	12.0	.0
73-05-16	0	26	6.1	12.0	.0
73-08-10	1	95	6.9	15.0	.0

WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

LONG ISLAND--Continued

SUFFOLK COUNTY

STATION NUMBER	LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
405005073271002	S 5	73-01-29	13	60	0	3.5	1.0	4.8	.4
404453073211201	S 11127	73-08-27	7.5	16000	820	11	2.7	22	3.3
404359073253801	S 17325	73-08-27	6.3	120	160	18	1.6	10	2.1
410314071570101	S 18762	73-01-17	20	60	0	7.8	3.2	17	1.3
405341072370501	S 19502	73-01-16	14	530	30	5.2	1.8	7.5	.7
404414073233901	S 21801	73-08-17	7.7	400	10	9.8	3.1	8.2	1.6
404352073223401	S 21814	73-08-17	7.7	230	30	3.1	2.3	4.5	.6
405900072063801	S 30227	73-01-16	14	130	0	4.7	2.2	12	.7
410155071583501	S 31735T	73-01-16	9.1	1300	160	5.0	2.4	12	.8
405725072362801	S 33073	72-10-18	1.3	13000	130	16	4.7	8.9	1.2
405639072181101	S 36965	73-01-16	19	210	0	21	7.2	13	1.0
405730072152001	S 38309	73-01-17	6.5	660	20	2.7	.8	4.2	.3
405445073180401	S 40545	73-06-25	8.0	400	80	2.0	.8	5.8	.5
405409072441901	S 45059	73-03-15	8.3	50	0	3.0	1.1	4.2	.3
404945073174501	S 45210	72-10-27	13	80	0	26	7.8	11	1.1
405356073192001	S 45412	72-11-01	14	50	0	16	6.4	15	1.6
405322073211404	S 45610	73-01-08	6.9	60	0	1.3	.5	3.3	.2
404618073164501	S 45717	72-10-30	6.9	40	0	2.9	1.7	3.1	.2

DATE OF SAMPLE	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)
73-01-29	14	11	2.5	5.0	.1	1.3	.00	.07	.05	.01	43	13
73-08-27	8	7	30	29	.2	3.7	.01	.96	.00	.00	128	39
73-08-27	60	49	18	5.0	.4	.62	.00	.48	.00	.01	94	52
73-01-17	31	25	8.3	24	.2	.20	.01	.03	.01	.02	98	33
73-01-16	16	13	8.0	11	.1	.00	.00	.00	.00	.02	56	20
73-08-17	8	7	25	14	.0	1.8	.00	.01	.04	.00	81	37
73-08-17	6	5	10	7.6	.2	.97	.00	.01	.02	.00	43	17
73-01-16	17	14	7.5	18	.1	.00	.01	.00	.00	.01	68	21
73-01-16	27	22	5.5	17	.1	.00	.00	.00	.00	.01	65	22
72-10-18	49	40	18	16	.1	.40	.00	.35	.28	.05	93	59
73-01-16	30	25	40	23	.1	3.4	.00	.00	.00	.01	154	82
73-01-17	9	7	4.5	4.5	.1	.40	.00	.01	.03	.00	30	10
73-06-25	15	12	1.0	8.3	.1	.54	.01	.15	.09	.00	36	8
73-03-15	9	7	5.5	7.5	.0	.00	.00	.03	1.1	.00	36	12
72-10-27	12	10	57	15	.1	7.1	.01	.00	.00	.01	168	97
72-11-01	19	16	25	18	.1	8.1	.00	.00	.00	.02	141	66
73-01-08	9	7	.0	4.5	.1	.60	.00	.00	.00	.01	24	5
72-10-30	5	4	7.0	4.9	.1	.09	.00	.00	.07	.00	30	14

DATE OF SAMPLE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
73-01-29	1	51	7.3	11.0	.0
73-08-27	32	226	5.4	13.0	.0
73-08-27	2	161	7.0	14.0	.0
73-01-17	7	147	7.4	--	.0
73-01-16	7	81	7.2	--	.0
73-08-17	31	138	5.8	--	.0
73-08-17	12	70	5.9	--	.0
73-01-16	7	104	7.7	--	.0
73-01-16	0	106	7.3	--	.0
72-10-18	19	157	8.3	11.0	.0
73-01-16	57	265	7.5	--	.0
73-01-17	3	41	7.3	--	.0
73-06-25	0	61	6.2	--	.0
73-03-15	5	67	6.9	10.0	.0
72-10-27	87	261	6.8	13.3	.0
72-11-01	51	222	6.5	11.1	.0
73-01-08	0	30	7.1	11.0	.0
72-10-30	10	44	6.5	10.6	.0

LONG ISLAND—Continued

SUFFOLK COUNTY—Continued

STATION NUMBER	LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
404516073122802	S 45721	72-11-06	8.2	60	50	13	2.8	38	2.4
404503073131201	S 45839	73-02-13	6.9	180	0	.3	.3	3.0	.2
404851073185101	S 45935T	73-02-16	12	60	10	5.3	1.1	4.8	1.4
404716073131601	S 46285	72-12-06	10	50	50	5.8	4.0	11	1.0
404803072484001	S 46712	73-02-19	11	50	0	5.0	2.1	4.4	.3
404804072484101	S 46713	73-03-02	13	450	20	3.0	1.0	4.6	.4
405041073251501	S 46871	73-02-09	7.7	200	30	2.8	.6	4.2	.4
		73-02-26	8.1	910	100	4.4	.8	5.0	.5
404920072484502	S 46911	73-03-20	5.3	100	480	7.3	1.3	40	1.8
404919072484501	S 46912	73-03-19	2.2	130	0	--	.2	2.7	.6
404920072484602	S 46913	73-03-19	1.8	110	10	2.0	.4	31	1.4
404917072484501	S 46914	73-03-21	2.6	40	0	--	.2	6.6	.5
405455073025801	S 46928	73-07-18	15	--	--	3.7	1.0	3.3	.4
405300072305201	S 47002T	73-01-16	15	390	20	6.8	2.7	7.8	.5
404628072430803	S 47024T	73-03-20	8.0	190	0	.1	.4	42	4.4
404617073035501	S 47035	73-03-05	13	330	10	2.0	1.2	3.8	.3
405240072491402	S 47226	73-03-30	11	12000	200	11	1.5	5.2	.5
405306072482701	S 47228	73-03-27	13	9000	200	--	.3	6.8	1.1

DATE OF SAMPLE	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)
72-11-06	12	10	18	61	.1	2.9	.01	.10	.00	.00	162	44
73-02-13	4	3	1.6	4.3	.0	.00	.01	.00	.01	.01	19	2
73-02-16	18	15	1.0	5.3	.0	.80	.01	.03	.13	.04	44	18
72-12-06	9	7	14	13	.1	5.3	.01	.00	.06	.00	87	31
73-02-19	11	9	8.0	6.1	.0	1.0	.01	.03	.00	.01	47	21
73-03-02	20	16	2.0	5.0	.0	.00	.00	.01	.00	.08	39	12
73-02-09	8	7	1.5	4.6	.0	1.1	.00	.02	.00	.01	31	9
73-02-26	6	5	3.4	9.0	.0	1.2	.01	.05	.15	.00	40	14
73-03-20	11	9	18	53	.2	1.5	.01	.02	.06	.01	139	24
73-03-19	8	7	2.5	2.8	.1	.20	.00	.03	.04	.00	--	--
73-03-19	28	23	6.5	30	.1	.40	.01	.04	.22	.07	89	7
73-03-21	8	7	9.0	2.5	.1	.40	.01	.02	.06	.00	--	--
73-07-18	17	14	1.0	3.9	.1	.01	.00	.05	.00	.01	37	13
73-01-16	21	17	6.0	12	.1	1.5	.02	.00	.03	.01	68	28
73-03-20	73	60	31	9.5	.7	.00	.02	.20	.02	.02	132	2
73-03-05	13	11	4.7	4.0	.1	.00	.00	.04	.00	.05	36	10
73-03-30	44	36	2.5	8.0	.2	.20	.01	1.1	.32	.18	64	34
73-03-27	5	4	8.0	7.5	.1	.00	.01	.07	.01	.09	--	--

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
72-11-06	34	307	6.2	11.0	.0
73-02-13	0	26	6.0	10.6	.0
73-02-16	3	57	6.9	--	.0
72-12-06	24	132	6.5	11.5	.0
73-02-19	12	67	7.0	--	.0
73-03-02	0	50	7.1	11.1	.0
73-02-09	3	40	6.7	10.5	.0
73-02-26	9	53	5.4	10.6	.0
73-03-20	15	253	6.0	10.5	.0
73-03-19	--	24	6.5	7.0	.0
73-03-19	0	159	7.3	6.0	.0
73-03-21	--	42	6.8	9.5	.0
73-07-18	0	45	7.2	12.0	.0
73-01-16	11	100	7.1	--	.0
73-03-20	0	208	7.4	15.0	.0
73-03-05	0	43	6.3	--	.0
73-03-30	0	92	7.0	10.0	.0
73-03-27	--	47	6.0	10.0	.0

WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

LONG ISLAND—Continued

SUFFOLK COUNTY—Continued

STATION NUMBER	LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
405306072482702	S 47229	73-03-27	7.8	650	70	4.2	1.0	12	1.5
405349072441501	S 47280T	73-03-21	12	60	0	11	3.6	4.4	.3
405407073001101	S 47310	73-05-04	12	90	0	3.3	.8	3.4	.5
405142073105801	S 47673	73-07-19	13	40	0	--	2.2	4.2	.4
405412072441401	S 47753	73-07-30	9.0	40	50	3.9	1.5	4.3	.6
405412072441402	S 47754	73-07-30	4.9	70	110	2.1	1.1	4.1	.4
404204073242001	S 47886	73-07-18	7.2	340	10	1.2	.4	3.0	.3
404047073252302	S 47887	73-08-03	6.5	--	--	.4	.2	2.4	.2
405203073085501	S 48014	73-08-21	14	370	280	10	3.9	4.8	1.4
405046072595901	S 48376	73-09-10	18	50	10	23	7.6	5.3	1.1
405447073175301	S 48697	73-06-25	16	50	10	17	6.8	16	2.2
405319073233601	S 48719	73-08-23	15	100	20	4.2	1.3	5.1	.7
404641073005402	S 48759	73-06-26	7.1	200	20	16	2.0	19	2.8
405006072490001	S 49477T	73-09-12	13	510	20	4.0	1.7	4.8	.6
404206073245801	S 49542	73-09-07	7.8	450	10	.7	.3	3.5	.4
404206073245802	S 49542T	73-09-10	7.9	530	50	2.0	.8	4.5	.4
405410073010103	S 49543	73-09-14	19	190	20	9.0	1.8	3.6	.7
405410073010102	S 49543T	73-09-12	19	440	50	9.0	1.9	4.5	1.0

DATE OF SAMPLE	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)
73-03-27	6	5	15	13	.1	1.0	.01	.05	.10	.01	62	15
73-03-21	45	37	4.5	6.0	.0	.00	.01	.03	.13	.03	64	42
73-05-04	15	12	1.9	5.0	.2	.04	.01	.01	.03	.00	35	12
73-07-19	--	--	1.5	5.4	.2	.15	.00	.00	.04	.02	--	--
73-07-30	12	10	5.7	7.4	.2	.02	.00	.02	.01	.01	39	16
73-07-30	5	4	6.0	6.5	.2	.04	.01	.00	.03	.00	28	10
73-07-18	3	2	5.0	4.3	.2	.07	.00	.02	.04	.01	23	5
73-08-03	2	2	1.0	3.0	.1	.01	.01	.01	.08	.00	15	2
73-08-21	47	39	10	3.5	.2	.01	.00	.03	.00	.05	71	41
73-09-10	104	85	7.5	5.5	.2	.68	.00	.00	.02	.02	122	89
73-06-25	19	16	31	30	.1	6.8	.02	.03	.01	.01	159	70
73-08-23	18	15	1.0	6.0	.2	1.3	.00	.01	.05	.01	48	16
73-06-26	13	11	19	24	.1	7.7	.01	.15	.00	.00	131	48
73-09-12	16	13	5.5	5.6	.2	.05	.01	.01	.02	.01	46	17
73-09-07	1	1	4.1	4.5	.1	.05	.01	.01	.00	.00	22	3
73-09-10	3	2	4.4	11	.2	.05	.01	.01	.01	.01	33	8
73-09-14	36	30	3.0	4.0	.3	.01	.00	.01	.01	.18	59	30
73-09-12	35	29	3.0	4.5	.2	.04	.00	.00	.01	.16	60	30

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
73-03-27	10	98	6.0	10.5	.0
73-03-21	5	89	8.1	10.0	.0
73-05-04	0	41	6.7	11.0	.0
73-07-19	--	--	--	12.0	.0
73-07-30	6	57	6.7	11.0	.0
73-07-30	6	47	5.6	10.5	.0
73-07-18	2	32	5.5	12.0	.0
73-08-03	0	23	4.9	12.5	.0
73-08-21	2	106	7.4	11.0	.0
73-09-10	3	200	7.7	11.0	.0
73-06-25	55	250	6.0	--	.0
73-08-23	1	64	6.7	12.5	.0
73-06-26	38	216	6.0	12.0	.0
73-09-12	4	210	6.8	10.0	.0
73-09-07	2	34	4.9	11.0	.0
73-09-10	6	50	5.2	11.5	.0
73-09-14	0	80	7.4	11.0	.0
73-09-12	2	80	7.2	11.0	.0

CHEMICAL QUALITY OF PRECIPITATION

LONG ISLAND

AT MINEOLA, N.Y.

LOCATION.--Lat 40°44'17", long 73°38'17", Nassau County, at National Weather Service Station Mineola 1W on roof of U.S. Geological Survey office, at 1505 Kellum Place, in Mineola.

RECORDS AVAILABLE.--Chemical analyses; October 1965 to September 1973 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 5.0 in (127 mm) in diameter which drains into a 4-litre glass receiving bottle. A glass wool filter is used to prevent large particles of debris from entering the receiving bottle. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 25 ft (8 m) above ground level.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED AMMONIA AS N (MG/L)	DISSOLVED NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-01-72 TO 11-01-72	5.84	1.1	.40	.6	.0	4.0	.50	1.40	.25	.60	10	6.25
11-01-72 TO 11-30-72	9.63	.8	.43	.9	.1	1.0	3.40	1.50	.26	.30	22	5.20
12-01-72 TO 01-02-73	4.71	1.2	.57	1.2	.0	.0	4.50	5.20	.46	.60	34	4.90
01-02-73 TO 01-31-73	3.33	1.7	.71	.8	.0	4.0	3.50	1.50	.27	.60	27	6.40
02-01-73 TO 03-01-73	3.05	3.6	.98	3.9	.0	3.0	5.50	7.40	.45	.80	52	6.20
03-01-73 TO 04-02-73	6.22	1.6	.50	.7	.0	4.0	4.30	1.40	.60	.60	25	5.70
04-02-73 TO 04-30-73	8.07	1.0	.40	.7	.2	4.0	3.50	1.20	.30	.60	23	5.30
05-01-73 TO 05-31-73	4.42	1.1	.40	.7	.1	.0	4.20	5.50	.52	.69	34	4.45
06-01-73 TO 07-01-73	6.96	.5	.30	.3	.0	.0	3.00	.70	.42	.67	32	4.35
07-01-73 TO 07-31-73	4.50	.9	.30	.2	.0	.0	6.50	.10	.49	.79	50	3.90
08-01-73 TO 09-30-73	3.77	2.0	.85	1.5	.2	2.0	5.90	1.50	.61	.89	34	5.60

AT UPTON, N.Y.

LOCATION.--Lat 40°52'16", long 72°53'20", Suffolk County, at National Weather Service Station at Brookhaven National Laboratory weather tower about 2 mi (3.2 km) east of main entrance, at Upton.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1973 (monthly composite) (discontinued).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED AMMONIA AS N (MG/L)	DISSOLVED NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-31-72 TO 11-30-72	6.50	.0	.19	1.4	.1	.0	1.70	2.40	.00	.17	26	4.55
11-30-72 TO 12-29-72	6.40	.2	.17	1.1	.0	.0	1.30	2.00	.01	.25	25	4.50
12-29-72 TO 02-01-73	5.30	.3	.20	1.4	.1	.0	7.80	1.50	.11	.30	267	4.65
02-01-73 TO 02-28-73	4.20	.3	.20	1.7	.0	.0	2.00	2.70	.10	.31	25	4.90
02-28-73 TO 03-30-73	4.40	.4	.13	.7	.0	.0	1.50	1.00	.06	.20	19	4.60
03-30-73 TO 04-30-73	7.60	.2	.10	.7	.0	.0	2.00	1.50	.15	.30	23	4.90
04-30-73 TO 05-31-73	5.40	.3	.14	.7	.0	.0	3.00	1.00	.25	.44	35	4.20
05-31-73 TO 06-29-73	2.50	.6	.15	.5	.3	.0	4.00	.80	.68	.52	33	4.40
06-29-73 TO 07-31-73	4.40	.5	.13	.5	.0	.0	6.50	.20	.03	.63	65	3.85
07-31-73 TO 08-31-73	3.00	1.3	.16	.6	.0	.0	4.50	.90	.01	.63	32	4.40

HUDSON RIVER BASIN

AT ROCK HILL, N.Y.

LOCATION.--Lat 41°37'25", long 74°31'17", Sullivan County, on North Shore Road, just north of Wanaksink Lake, 0.9 mi (1.4 km) east of Rock Hill, and 3.5 mi (5.6 km) northwest of National Weather Service Station Rock Hill 3SW and 6.5 mi (10.5 km) southeast of Monticello.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1973 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED AMMONIA AS N (MG/L)	DISSOLVED NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-05-72 TO 11-09-72	5.06	.5	.25	.4	2.5	.0	8.20	1.50	.12	.01	22	5.30
11-09-72 TO 12-30-72	12.93	.9	.32	.2	.8	.0	3.50	1.00	.08	.35	27	4.70
12-30-72 TO 02-01-73	4.54	1.0	.58	.9	.0	.0	8.00	1.40	.11	.71	36	5.20
02-01-73 TO 03-01-73	2.23	.6	.29	.6	.0	.0	5.80	1.50	.22	1.02	45	4.40
03-01-73 TO 04-02-73	3.35	.3	.10	.2	.0	.0	3.50	.50	.20	.48	25	5.00
04-02-73 TO 05-04-73	6.82	.8	.10	.2	.3	.0	3.90	1.20	.07	.54	30	4.50
05-04-73 TO 06-02-73	7.26	---	.10	.1	.1	.0	5.00	.50	.63	.89	49	4.05
06-02-73 TO 07-02-73	9.15	.2	.80	.2	.1	.0	2.00	1.20	.20	.34	28	4.25
07-02-73 TO 08-02-73	2.58	.2	.50	.1	.1	.0	3.40	.00	.08	.09	25	4.20
09-06-73 TO 10-01-73	3.54	.6	.10	.4	.5	.0	4.00	.50	.00	.37	37	4.20

NEAR ALBANY, N.Y.

LOCATION.--Lat 42°44'35", long 73°48'30", Albany County, at National Weather Service Station at Albany Municipal Airport, 0.5 mi (0.8 km) north of new State Highway 155.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1973 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED AMMONIA AS N (MG/L)	DISSOLVED NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-03-72 TO 12-08-72	12.89	1.2	.16	.2	.0	.0	3.20	.40	.00	.20	15	5.40
12-08-72 TO 02-05-73	5.66	3.2	.21	1.1	1.0	4.0	5.70	4.00	.00	.59	30	6.40
02-05-73 TO 03-20-73	2.18	6.5	.41	3.2	.0	9.0	8.50	4.90	.05	.57	56	7.00
03-20-73 TO 04-13-73	4.33	2.0	.22	.2	.0	4.0	3.50	.00	.04	.00	15	6.10
04-13-73 TO 04-30-73	.76	5.9	.45	2.0	.3	0.0	11.00	1.60	.17	.12	41	6.70
04-30-73 TO 07-18-73	13.40	1.8	.27	.4	.0	.0	4.10	.30	.03	.35	27	4.60
07-18-73 TO 09-04-73	4.14	2.0	.20	.6	.7	.0	6.20	.50	.00	.01	29	4.65

HUDSON RIVER BASIN

AT HINCKLEY, N.Y.

LOCATION.--Lat 43°18'35", long 75°06'35", Oneida County, at National Weather Service Station at Hinckley Dam on West Canada Creek on Cody Road in Hinckley.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1973 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED AMMONIA AS N (MG/L)	DISSOLVED NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-01-72 TO 11-01-72	3.48	.7	.16	.2	.3	.0	3.50	.40	.07	.01	15	4.95
11-01-72 TO 12-01-72	7.87	.3	.06	.2	.2	.0	1.70	.40	.02	.30	22	4.55
12-01-72 TO 12-31-72	6.98	.2	.60	.2	.0	.0	3.20	.30	.45	.62	31	4.50
12-31-73 TO 01-31-73	4.25	.7	.15	.5	.0	.0	2.50	.50	.22	.65	25	4.50
01-31-73 TO 03-01-73	1.90	.2	.80	.2	.0	.0	2.40	.30	.26	.76	32	4.40
03-01-73 TO 03-31-73	4.04	.4	.70	.1	.0	.0	2.50	.50	.03	.57	30	4.40
03-31-73 TO 05-01-73	6.21	.6	.10	.1	.0	2.0	2.00	.00	.04	.11	12	4.90
05-01-73 TO 05-31-73	6.60	.5	.10	.1	.0	.0	3.50	.10	.01	.34	31	4.25
05-31-73 TO 06-30-73	4.45	.8	.17	.2	.0	.0	4.60	1.00	.05	.09	28	4.30
06-30-73 TO 08-01-73	2.88	1.4	.30	.1	.0	.0	6.00	.00	.11	.04	40	4.00
08-01-73 TO 08-31-73	2.85	1.9	.24	.3	.0	3.0	5.50	.20	.01	.00	17	5.80
08-31-73 TO 09-30-73	5.55	.7	.20	.2	.1	.0	5.00	.30	.00	.02	21	4.10

SUSQUEHANNA RIVER BASIN

NEAR ATHENS, PA.

LOCATION.--Lat 41°55'31", long 76°31'35", Bradford County, at National Weather Service Station Milan 1N, 300 feet west of U.S. Highways 220 and 309, 0.6 mi (1.0 km) west of the mouth of the Chemung River, 2.0 mi (3.2 km) south of Athens, and 5.1 mi (8.2 km) south of the New York-Pennsylvania state line.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1973 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED AMMONIA AS N (MG/L)	DISSOLVED NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-01-72 TO 11-02-72	1.57	.7	.14	.2	.0	.0	5.70	.60	.13	.25	36	4.30
11-02-72 TO 11-28-72	5.22	.2	.06	.1	.2	.0	3.00	.20	.38	.32	21	4.65
11-28-72 TO 12-31-72	3.75	.4	.06	.1	.0	.0	5.10	.50	1.20	.55	32	4.50
12-31-72 TO 01-31-73	-----	.6	.10	.7	.1	.0	6.00	1.00	1.40	.60	33	4.90
01-31-73 TO 03-01-73	-----	1.1	.21	.8	.0	.0	8.00	14.00	.70	.90	43	4.60
03-01-73 TO 04-01-73	-----	1.2	.19	.3	.0	.0	6.50	.50	.55	1.10	47	4.90
04-01-73 TO 05-01-73	-----	.7	.11	.1	.0	.0	3.50	.90	.02	.52	28	4.15
05-01-73 TO 05-31-73	-----	.7	.11	.2	.0	.0	7.00	.40	.12	.89	68	4.00
05-31-73 TO 07-01-73	-----	.7	.11	.1	.0	.0	7.00	.30	.06	.52	63	3.90
07-01-73 TO 08-01-73	1.62	1.4	.24	.1	.1	.0	12.00	.10	.17	.00	78	3.75
08-01-73 TO 08-31-73	-----	3.0	.40	.3	.1	.0	14.00	.20	.11	.72	76	3.95
08-31-73 TO 10-01-73	4.38	.7	.20	.4	.3	.0	5.50	.30	.09	.55	40	4.20

ALLEGHENY RIVER BASIN

AT ALLEGANY STATE PARK, N.Y.

LOCATION.--Lat 42°06'00", long 78°45'00", Cattaraugus County, at National Weather Service Station in Allegany State Park, 100 feet west of Park Administration Building, 300 feet west of Park Highway 1 and 6.0 mi (9.7 km) south of Salamanca.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1973 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED AMMONIA AS N (MG/L)	DISSOLVED NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-01-72 TO 11-01-72	5.76	---	.12	1.7	.3	.0	6.00	1.90	.18	.45	230	4.70
11-01-72 TO 12-31-72	8.94	.9	.17	1.2	.6	.0	12.00	1.70	1.80	1.12	75	4.10
12-31-72 TO 01-31-73	2.18	---	----	3.0	4.5	.0	-----	-----	----	----	212	3.85
03-01-73 TO 04-30-73	6.96	---	----	----	---	---	00.00	5.70	6.00	1.35	252	-----
06-01-73 TO 07-01-73	3.98	.4	.70	.5	.0	.0	6.40	.20	.48	.65	55	4.00
07-01-73 TO 08-01-73	3.58	.5	.11	.1	.0	.0	8.00	.20	.64	.85	72	3.80
08-01-73 TO 09-01-73	3.35	0.0	.68	.2	.0	8.0	6.20	.40	.12	.69	67	8.20

LAKE ONTARIO BASIN

AT MAYS POINT, N.Y.

LOCATION.--Lat 42°59'55", long 76°45'45", Wayne County, at National Weather Service Station Mays Point Lock 25, at Erie (Barge) Canal and State Highway 89 and 6.2 mi (10.0 km) south of Savannah.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1973 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED AMMONIA AS N (MG/L)	DISSOLVED NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-01-72 TO 10-31-72	3.91	1.0	.21	.5	.0	.0	4.00	1.00	.13	.45	37	4.45
10-31-72 TO 11-30-72	4.09	.6	.08	.2	.1	.0	2.50	.30	.05	.45	24	4.40
11-30-72 TO 01-02-73	2.72	1.3	.12	.2	.0	.0	4.00	.50	.20	.75	36	4.45
01-02-73 TO 02-01-73	.50	3.8	.47	3.0	1.8	2.0	9.80	4.20	2.00	1.28	62	6.30
02-01-73 TO 03-01-73	2.48	2.5	.28	2.5	1.8	4.0	6.00	3.50	1.20	1.29	48	6.10
03-01-73 TO 04-02-73	3.28	1.8	.19	.3	.0	3.0	4.00	.50	.17	.79	21	5.60
04-02-73 TO 04-30-73	4.33	3.1	.11	.2	.0	3.0	4.00	.60	.07	.50	22	4.80
04-30-73 TO 05-31-73	2.84	1.8	.38	.2	.0	.0	6.70	.30	.05	.74	43	4.15
05-31-73 TO 07-02-73	5.09	.8	.18	.1	.2	.0	4.80	.20	.17	.45	46	4.05
07-02-73 TO 07-31-73	2.15	2.8	.58	.2	.0	.0	7.60	.20	.10	.64	44	4.30
07-31-73 TO 08-31-73	2.76	1.4	.30	.2	.1	.0	6.50	.40	.02	.57	46	4.10
08-31-73 TO 10-01-73	2.19	1.5	.40	.3	.2	.0	8.20	.50	.13	.95	73	3.90

ST. LAWRENCE RIVER BASIN

NEAR CANTON, N.Y.

LOCATION.--Lat 44°34'40", long 75°06'40", St. Lawrence County, at National Weather Service Station, Canton 4SE, on the Canton State University Farm on State Highway 68, 2.5 mi (4.0 km) southeast of U.S. Highway 11 and Canton.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1973 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED AMMONIA AS N (MG/L)	DISSOLVED NITRATE AS N (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
12-01-72 TO 02-05-73	7.19	.6	.20	.4	.0	.0	4.50	.20	.47	1.16	41	4.30
02-05-73 TO 03-01-73	.82	2.4	.56	4.1	.4	.0	7.00	5.50	.62	1.64	58	5.10
03-01-73 TO 04-01-73	1.81	.5	.00	.1	.0	.0	3.00	.10	.12	.64	22	4.40
04-01-73 TO 05-03-73	5.17	.6	.21	.2	.1	.0	3.40	.40	.10	.18	18	4.70
05-03-73 TO 05-31-73	4.43	.4	.14	.1	.0	.0	3.00	.00	.08	.29	31	4.20
05-31-73 TO 07-06-73	3.79	1.1	.32	.1	.2	1.0	4.30	.50	.05	.03	21	4.65
07-06-73 TO 08-02-73	1.66	1.7	.50	.2	.4	.0	7.70	.10	.60	.49	40	4.30
08-02-73 TO 09-08-73	1.68	3.0	.90	.2	.2	3.0	9.50	.50	.27	.14	77	7.20
09-08-73 TO 10-07-73	5.22	.4	.20	.2	.1	.0	3.50	.30	.06	.47	37	4.20

Table 5.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYZED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1973 WATER YEAR

USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
WQS - New York State Water Quality Surveillance
EPA - Environmental Protection Agency

Identification Number USGS OWDC	Identification Number WQS EPA	Station	Latitude Longitude
01336600 68068	12 0550	Mohawk River (Canal Section) at Rome	43°11'58" 75°23'24"
01338600 68085	12 0452	Mohawk River above Whitesboro	43°08'23" 75°18'12"
01342602 61406	12 0500	Mohawk River near Utica	43°05'26" 75°09'28"
01342755 68083	12 0450	Mohawk River at Herkimer	43°01'01" 74°59'48"
01346000 68094	12 1411	West Canada Creek at East Bridge	43°04'25" 74°59'24"
01358001 67597	13 0007	Hudson River at Troy	42°45'05" 73°41'10"
01496380 68109	06 P069	Canadarago Lake near Richfield Springs	42°49'16" 75°00'41"
01502632 68108	06 0045	Susquehanna River at Bainbridge	42°17'28" 75°28'36"
01505000 68106	06 1022	Chenango River at Sherburne	42°40'43" 75°30'39"
01505580 68107	06 1021	Chenango River near Oxford	42°28'21" 75°32'44"
01509030 68105	06 2041	Tioughnioga River at Blodgett Mills	42°34'05" 76°07'18"
01513500 61438	06 0006	Susquehanna River at Vestal	42°05'31" 76°03'21"
01513831 73154	06 0020	Susquehanna River at Owego	42°06'01" 76°15'39"
01514937 61440	06 0015	Susquehanna River at Smithboro	42°01'41" 76°23'07"
01520500 61424	05 1120	Tioga Creek at Lindley	42°01'43" 77°07'55"
01524525 68110	05 2004	Canisteo River below Hornell	42°17'58" 77°39'03"
01529552 61386	05 1080	Cohocton River at Campbell	42°13'37" 77°11'56"
01529950 68111	05 0005	Chemung River at Corning	42°08'51" 77°03'42"
01530310 61415	05 0003	Chemung River at Fitch Bridge	42°04'57" 76°52'01"
01530330	05 0002	Chemung River at Elmira	42°04'52" 76°49'15"
01531000 61439	05 0001	Chemung River at Chemung	42°00'10" 76°38'06"
03010844 77390	02 0005	Allegheny River at Allegany	42°05'26" 78°30'09"
03010870 68790	02 0003	Allegheny River at Vandalia	42°05'38" 78°34'27"
03010958 61411	02 1036	Tunungwant Creek at Tuna Creek, Pa.	41°59'47" 78°37'21"
03011020 68119	02 0002	Allegheny River at Salamanca	42°09'24" 78°42'57"
03014500 68095	02 3061	Chadakoin River at Falconer	42°06'44" 79°14'19"
03014590	02 2013	Cassadaga Creek near Jamestown	42°05'48" 79°09'25"
03014600 68788	02 1011	Conewango Creek at Frewsburg	42°04'11" 79°09'36"
04213378 77387	01 1040	Canadaway Creek at Dunkirk	42°28'32" 79°21'56"
03014670 61410	02 1010	Conewango Creek near Frewsburg	42°01'23" 79°09'35"
04213450 68120	01 2002	Buttermilk Creek near Springville	42°28'50" 78°40'32"
04214020 77388	01 1030	Cattaraugus Creek at Irving	42°34'12" 79°06'45"
04213500 61409	01 1070	Cattaraugus Creek at Gowanda	42°28'05" 78°56'30"
04214240 77389	01 1020	Eighteenmile Creek at Highland-on-the-Lake	42°42'44" 78°58'00"
04215790 68121	01 1006	Buffalo River at Ohio Street at Buffalo	42°51'42" 78°52'04"
04216060 68122	01 0004	Niagara River at Bird Island at Buffalo	42°54'53" 78°54'12"
04216080 68125	01 C005	Black Rock Canal at Buffalo	42°54'54" 78°54'10"
04216225 73650	01 0007	Niagara River at Tonawanda Water Intake	42°57'02" 78°55'15"
04216230	01 0008	Niagara River at Tonawanda Water Treatment Plant	42°57'50" 78°55'30"
04218595 68124	01 C900	Erie (Barge) Canal near Pendleton	43°06'57" 78°44'13"
04218705 68113	04 C901	Erie (Barge) Canal at State Highway 383 at Rochester	43°07'23" 77°38'45"
04218760 68112	04 C902	Erie (Barge) Canal at West Brighton	43°06'38" 77°37'58"
04219355 68123	01 0002	Niagara River (Tonawanda Channel) at Niagara Falls	43°04'28" 79°00'19"
04219640 61408	01 0001 A	Lake Ontario (Niagara River) at Youngstown	43°18'10" 79°03'52"
04220284 61431	03 L002	Lake Ontario at MCWA Intake at Rochester	43°16'45" 77°37'01"
042202841 68217	03 L001	Lake Ontario at Rigney Bluff	
04220438 61414	04 0075	Genesee River above Wellsville	42°06'40" 77°56'30"
04227000 68114	04 1008	Canaseraga Creek at Shakers Crossing	42°44'12" 77°50'28"
04227510 61418	04 0065	Genesee River at Geneseo	42°46'37" 77°50'31"
04228500 68115	04 0006	Genesee River at Avon	42°55'04" 77°45'27"
04230055 61419	04 1050	Honeoye Creek at West Rush	42°58'40" 77°41'52"
04230650 61413	04 0020	Genesee River at Ballentyne Bridge near Mortimer	43°05'31" 77°40'52"
04231500 68116	04 0004	Genesee River at State Highway 47 at Rochester	43°07'28" 77°37'56"
04232000 68117	04 0003 B	Genesee River at Rochester	43°10'50" 77°37'40"
04232006 68118	04 0001	Genesee River at Charlotte Docks, at Rochester	43°13'26" 77°36'59"
04232158 61429	03 L840	Lake Ontario near Oswego	43°28'17" 76°32'59"
0423249907 68103	07 P108	Seneca Lake at Salt Point	42°24'25" 76°53'10"
0423249988 61430	07 P106	Seneca Lake at Geneva Water Plant near Geneva	42°48'52" 76°57'24"

A Additional water-quality data in this report.
B Also USGS water-temperature station data in this report.

Table 5.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYZED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1973 WATER YEAR - Continued

Identification Number		Station	Latitude Longitude
USGS OWDC	WQS EPA		
04232651 73653	07 1040	Seneca River at Waterloo	42°54'05" 76°51'46"
04232707 73634	07 1060 354301	Seneca River (Cayuga and Seneca Canal) at Seneca Falls	42°54'18" 76°49'34"
04232723 73635	07 P080	Seneca River (Van Cleef Lake) at Seneca Falls	42°54'54" 76°47'14"
04232730 61385	07 1090	Seneca River (Cayuga and Seneca Canal) near Seneca Falls	42°56'20" 76°45'42"
0423406011 68104	07 P113	Cayuga Lake at Myers	42°32'05" 76°32'56"
0423406084 61433	07 P111	Cayuga Lake near Caroga	42°50'49" 76°43'43"
042340613 61448	07 1130	Seneca River (Cayuga and Seneca Canal) at Free Bridge Corners	42°57'46" 76°44'17"
0423454444 61383	07 P120	Canandaigua Lake near Canandaigua	42°50'32" 77°16'42"
04235396 61382	07 P115	Owasco Lake near Auburn	42°53'56" 76°32'17"
04235730 73652	07 1150	Seneca River near Weedsport	43°04'14" 76°33'25"
04237500 54102	07 1020	B Seneca River at Baldwinsville	43°09'24" 76°19'58"
04240300 68096	07 4401	Ninemile Creek at Syracuse	43°04'50" 76°13'36"
04240500 68100	07 2400	Onondaga Lake Outlet at Long Branch	43°07'01" 76°14'44"
04240540 68101	07 1361	Seneca River at Belgium	43°10'15" 76°16'06"
04242730 68097	07 3405	Fish Creek at Fish Creek Landing	43°13'16" 75°42'06"
04243535 68098	07 3404	Oneida Creek at South Bay	43°09'51" 75°44'14"
04245500 68099	07 3403	Chittenango Creek at Bridgeport	43°09'16" 75°58'18"
04246000 68102	07 1231	Oneida Lake (Oneida River) at Brewerton	43°14'25" 76°08'28"
04247080 61466	07 0200	Oswego River at Hinmansville	43°14'54" 76°21'06"
04249000 61447	07 0180	Oswego River at Oswego	43°27'26" 76°31'06"

B Also USGS water-temperature station data in this report.

INDEX

Page
Abbreviations.... 2-7
Allegheny River basin, chemical analyses of precipitation.. 291
  miscellaneous analyses of streams in.... 270-271
  surface-water quality records.... 190-191
Arrangement of data and identification numbers.... 8-9

Batten Kill at Middle Falls.... 48-49
Beaver Kill at Cooks Falls.... 130-131
Beaver River at Moshier Falls.... 215
Black Creek at Churchville.... 202-203
Black River, above Carthage.... 216-217
  at Forestport.... 210-211
  at Greig.... 212-213
  at Huntingtonville.... 220
  at Watertown.... 221-222
  below Carthage.... 218-219
  below Watertown.... 223-224
Brant Lake Outlet at Brant Lake.... 33
Buffalo Creek at Gardenville.... 192-193

Callicoon Creek at Callicoon.... 150
Carmans River at Yaphank.... 24-25
Cayadutta Creek at Fonda.... 70-71
Chemical analyses, of ground water.... 283-287
  of precipitation.... 288-292
Chemung River at Wellsburg.... 188-189
Collection and examination of data.... 11-12
Conewango Creek at Waterboro.... 190-191
Conewango Creek basin, surface-water quality records.... 190-191
Cooperation.... 1-2

Deer River at Brasher Iron Works.... 233-234
Definition of terms and abbreviations.... 2-7
Delaware River, above Lackawaxen River near Barryville.... 153-154
  at Barryville.... 158-159
  at Lordville.... 148
  at Narrowsburg.... 152
  at Port Jervis.... 163-168
  at Skinners Falls.... 151
  East Branch, at Downsville.... 129
    at Fishs Eddy.... 132-134
    at Hancock.... 135
    at Margaretville.... 128
    near Callicoon.... 149
  West Branch, above Walton.... 136
    at Beerston.... 137
    at Hale Eddy.... 144-146
    at Hancock.... 147
    at Stilesville.... 138-139
Delaware River basin, miscellaneous analyses of streams in.. 270-271
  surface-water quality records.... 128-173

East Branch Delaware River, at Downsville.... 129
  at Fishs Eddy.... 132-134
  at Hancock.... 135
  at Margaretville.... 128
East Branch Sacandaga River at Griffin.... 35-36
East Canada Creek at St. Johnsville.... 68
East Meadow Brook at Freeport.... 28-29
Eighteenmile Creek near Newfane.... 198-199
English - metric (SI) conversion factors.... 19
Esopus Creek at Saugerties.... 97
Esopus Creek at Shandaken.... 94-96
Explanation of water quality data.... 11-14

Factory Brook at Homer.... 178-179
Fish Creek, at Saratoga Springs.... 36
  at Schuylerville.... 57
Fishkill Creek, at Beacon.... 114-116
  at Hopewell Junction.... 112-113
Fivemile Creek near Kanona.... 186-187
Friends Lake near Chestertown.... 32

Genesee River at Rochester.... 204
Glowegee Creek, at West Milton.... 52-53
  near West Milton.... 50-51
Grass River, above Massena.... 230
  below Massena Center.... 231
Ground-water chemical analyses, Long Island.... 283-287
  New York.... 283-287
Ground-water quality data, arrangement.... 9

Hackensack River basin, surface-water quality records.... 126-127
  miscellaneous analyses of streams in.... 268-269
Hackensack River near Orangeburg.... 126-127
Hoosic River, near North Pownal, Vt.... 60-61
  near Stillwater.... 62
Housatonic River basin.... 20-21
Hudson River, at Beacon.... 110-111
  at Bear Mountain.... 119
  at Catskill.... 92-93
  at Coeymans.... 91
  at Corinth.... 38-39
  at Fort Edward.... 45-46
  at Glenmont.... 89-90
  at Glens Falls.... 42-43
  at Green Island.... 86-88
  at Hudson Falls.... 44
  at Kingston Point.... 98
  at monitor at Waterford.... 65-66
  at Piermont.... 122-123
  at Spier Falls.... 40-41
  at Stillwater.... 58-59
  at Thomson.... 47
  at Verplanck.... 120-121
  at Waterford.... 63-64
  at Yonkers.... 124-125
  near Chelsea.... 108-109
  near Poughkeepsie.... 102-105
Hudson River basin, chemical analyses of precipitation.... 289-290
  miscellaneous analyses of streams in.... 260-269
  surface-water quality records.... 30-125
Hydrologic bench-mark station.... 94-96
  definition of.... 10

Independence River at Donnattsburg.... 214
International Hydrological Decade (IHD) River Station.... 86-88,229
  definition of.... 10
International System (SI) units.... 19
Introduction.... 1

Johnson Creek at Kuckville.... 200-201

Kayaderosseras Creek, at Saratoga Springs.... 55
  near West Milton.... 56

LaChute at State Highway 22 at Ticonderoga.... 235
Lackawaxen River, at Hawley, Pa.... 155
  at mouth at Lackawaxen, Pa.... 157
Lake Champlain, (East Bay) near Whitehall.... 236-237
  near Crown Point.... 240-241
  near Ticonderoga.... 238-239
Lake Erie basin, surface-water quality records.... 192-193
Lake Ontario basin, chemical analyses of precipitation.... 291
  miscellaneous analyses of streams in.... 270-273
  surface-water quality records.... 198-224
Long Island, analyses of samples collected at
    water-quality partial-record stations.... 242-259
  chemical analyses of ground water.... 283-287
  chemical analyses of precipitation.... 288
  surface-water quality records streams on.... 22-29
Loon Lake near Chestertown.... 31

Massapequa Creek at Massapequa.... 26-27
Metric (SI) - English conversion factors.... 19
Mill Neck Creek at Mill Neck.... 22-23
Miscellaneous analyses of streams, Allegheny River basin.... 270-271
  Delaware River basin.... 270-271
  Hackensack River basin.... 268-269
  Hudson River basin.... 260-269
  New York.... 260-282
  Passaic River basin.... 270-271
  Susquehanna River basin.... 270-271
  tributary to, Lake Ontario.... 270-273
    Niagara River.... 270-271
    St. Lawrence River.... 274-275
Miscellaneous sites, minor element analyses.... 276-282
Mohawk River, above Little Falls.... 67
  at Crescent Dam.... 84-85
  at Fonda.... 72-73
  at Lock 10, at Cranesville.... 78-79
  at Lock 15, at Fort Plain.... 69
  at Schenectady.... 80-81
  at Tribes Hill.... 77
  at Vischer Ferry Dam.... 82-83
Mongaup River, at Mongaup Valley.... 160
  below Swinging Bridge Reservoir.... 161
  near Mongaup.... 162
Moodna Creek near New Windsor.... 117-118

National Stream Quality Accounting Network Stations...102-105,194-197
  definition of.... 10
Neversink River, at Neversink.... 170-171
  at Port Jervis.... 172-173
  near Claryville.... 169
Niagara River (Lake Ontario) at Fort Niagara.... 194-197
North Atlantic slope basins, surface-water quality records.... 20-189

Ohio River basin, surface-water quality records.... 190-191
Oquaga Creek, at Arctic.... 140
  near North Sanford.... 142-143
Oquaga Creek tributary at Arctic.... 141
Oswegatchie River, at Gouverneur.... 226-227
  at Ogdensburg.... 228
Other available data.... 15
Owasco Outlet below Auburn.... 205-206

Page
Partial-record stations, water-quality.................... 242-259
Precipitation, chemical quality of, at Allegany State Park. 291
  at Hinckley.. 290
  at Mays Point.. 291
  at Mineola... 288
  at Rock Hill... 289
  at Upton... 288
  in Allegheny River basin................................. 291
  in Hudson River basin.................................... 289-290
  in Lake Ontario basin.................................... 291
  in Long Island... 288
  in New York.. 288-292
  in St. Lawrence River basin.............................. 292
  in Susquehanna River basin............................... 290
  near Albany.. *289*
  near Athens, Pa.. 290
  near Canton.. 292
Precipitation quality data, arrangement.................... 9

Raquette River at Massena Springs.......................... 232
References, selected....................................... 17-18
Rondout Creek at Eddyville................................. 101

Sacandaga River, at Hadley................................. 37
  East Branch, at Griffin.................................. 35-36
St. Lawrence River, at Cape Vincent........................ 225
  at Cornwall, Ontario - near Massena, N.Y................. 229
  miscellaneous analyses of streams tributary to........... 274-275
St. Lawrence River basin, chemical analyses of
    precipitation.. 292
  miscellaneous analyses of streams in..................... 270-275
  surface-water quality records............................ 192-241
St. Lawrence River main stem, surface-water quality
    records.......................................194-197,225,229
Salmon River below Pulaski................................. 208-209
Schoharie Creek, at Fort Hunter............................ 76
  at North Blenheim.. 74-75
Schroon Lake at Pottersville............................... 30
Schroon River at Riverbank................................. 34

Page
Selected references.. 17-18
Seneca River at Baldwinsville.............................. 207
Special Networks... 10-11
Streams on Long Island, surface-water quality records...... 22-29
Streams tributary, to Lake Ontario, miscellaneous analyses
    of... 270-273
  to Niagara River... 270-271
  to St. Lawrence River.................................... 274-275
Streams tributary, to Lake Erie, surface-water quality
    records.. 192-193
  to Lake Ontario.. 198-224
  to St. Lawrence River............................226-228,230-241
Surface-water quality data, arrangement.................... 8
Susquehanna River, at CFJ Memorial Bridge at Johnson City.. 183-184
  at Conklin... *276-277*
  at Johnson City.. 185
  at Unadilla.. 174-175
Susquehanna River basin, chemical analyses of precipitation 290
  miscellaneous analyses of streams in..................... 270-271
  surface-water quality records............................ 174-189

Tenmile River near Gaylordsville, Conn..................... 20-21
Ticonderoga Creek at Ticonderoga........................... 235
Tioughnioga River, at Cortland............................. 182
  West Branch, at Homer.................................... 180-181

Wallenpaupack Creek at Ledgedale, Pa....................... 156
Wallkill River, near Rosendale............................. 100
  near Unionville.. 99
Wappinger Creek near Wappingers Falls...................... 106-107
Water-quality partial-records stations..................... 242-259
Water-quality records...................................... 20-292
Water-supply papers.. 16
West Branch Tioughnioga River at Homer..................... 180-181
West Branch Delaware River, above Walton................... 136
  at Beerston.. 137
  at Hale Eddy... 144-146
  at Hancock... 147
  at Stilesville... 138-139